

## 编译者说明

由于电子工业和电影、电视事业的飞速发展,近年来我国在光学镜头设计及其加工方面取得了很大进展。成系列的各类镜头已经设计和试制出来,有些并已进入成批生产阶段。但在品种、数量和质量方面,跟世界先进水平相比,差距还是比较大。

近年来,我们收集了美、英、德、日等国从1811年到现在的光学镜头资料及部分国内镜头资料共3000多种,现挑选其中的一部分经补充整理之后,将其出版,以供我国从事光学镜头设计的人员参考。

我们准备分成“大相对孔径物镜”(第一、二册,已出),“广角物镜”(第三册,已出),“变焦距物镜”(第四册,已出),“中等视场中等孔径物镜”(第五册,已出),“日本七十年代初的部分大相对孔径物镜及部分广角物镜专集”(第六册,已出),“1978~1980年国外部分物镜专集”(第七册,已出),“目镜”(第八册),“非球面系统”(第九册),“特种镜头,显微物镜及其他”(第十册)等九类。每册收集的镜头数约为100~200个。

原资料中,大部分未给出象差值,也没有列出象差曲线图,我们均重新计算给予补上。由于原资料中光栏位置,F. A., E. F. L, B. F. L等大多没有给出,我们计算时只能根据我们按一般使用情况主观给定的有关光栏位置,F. A.等进行计算,因此相应的象差值和象差曲线图仅供参考。

本册的内容为目镜,收集了1920~1982年部分国外目镜镜头:一般目镜、中等视场目镜、广角目镜、虚焦面目镜、放大镜、变焦目镜等以及七十年代才出现的新型目镜。

《云光技术》杂志曾于1972年收集出版了“目镜数据专辑”(见该刊1972年1~2期),该“专辑”是设计望远镜、显微镜、测距仪等目镜和放大镜的很有参考价值的资料,现征得云南光学仪器厂有关部门同意,将“专辑”中的结构参数作为附录列入本册。在此谨向云南光学仪器厂和该专辑的汇编者致谢。

由于我们水平有限,时间仓促,力量不足,所以只能一部分一部分地整理出版,而且在整理过程中,一定存在不少缺点和错误,分类也不可能完全合理,望读者批评指正。

参加本册编译工作的有杨魁田、林茂智和春光等同志。

编译者

VISIT...

LANZAROTE  
*Caliente*.COM

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## 符号说明

1. 凡数据后有符号“\*\*”，表示原资料中未给此值，此系编者在计算时给定的值。

2. 凡没有注明数值单位的，均以毫米为单位；若注明以英寸为单位，则在该镜头资料中均以英寸为单位。

3. 常用符号：

$\Sigma S_1$  球差系数和；

$\Sigma S_2$  彗差系数和；

$\Sigma S_3$  象散系数和；

$\Sigma S_4$  场曲系数和；

$\Sigma S_5$  畸变系数和；

$LA'$  球差；

$\Delta H'$  绝对畸变；

$x'_1$  细光束子午场曲；

$x'_2$  细光束弧矢场曲；

$x'_1 - x'_2$  象散；

$K'_{T1}$  全口径的子午彗差；

$K'_{T0.7}$  0.707 口径的子午彗差；

QP 相对畸变；

HI 理想象高；

E. F. L 焦距；

B. F. L 后截距；

F. A. 视场角；

$\omega$  镜头视场；

OSC' 正弦差；

$\phi_H$  目镜出瞳直径；

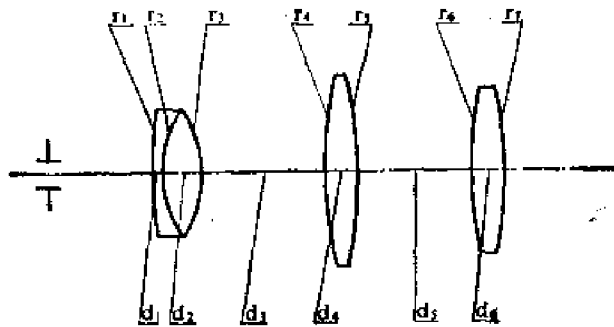
$l'_p$  目镜入射光瞳（近轴）距离；

$L_p$  目镜出射光瞳距离。

编号: 08-01-001

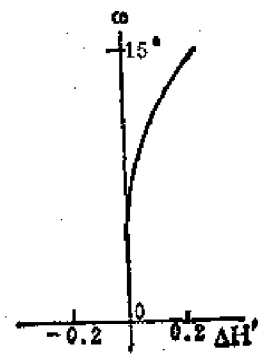
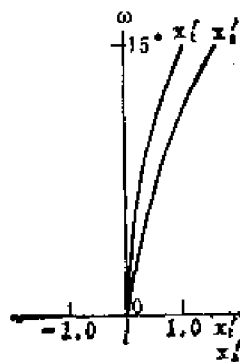
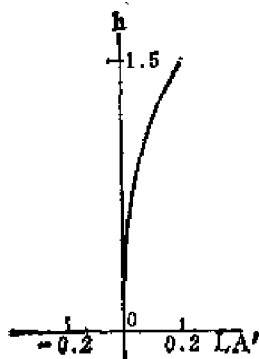
# 望远镜 目镜

E.F.L.=87.5    B.F.L.= -13.66     $\phi_m/2=1.5^{**}$     F.A. =  $\pm 15^{**}$



| 序号 | r      | d    | n     | v    |
|----|--------|------|-------|------|
| 1  | 88.30  | 1.3  | 1.617 | 36.6 |
| 2  | 19.12  | 6.6  | 1.517 | 64.5 |
| 3  | -21.90 | 21.6 |       |      |
| 4  | 75.80  | 5.0  | 1.523 | 58.6 |
| 5  | -75.80 | 19.5 |       |      |
| 6  | 75.80  | 5.0  | 1.523 | 58.6 |
| 7  | -75.80 |      |       |      |

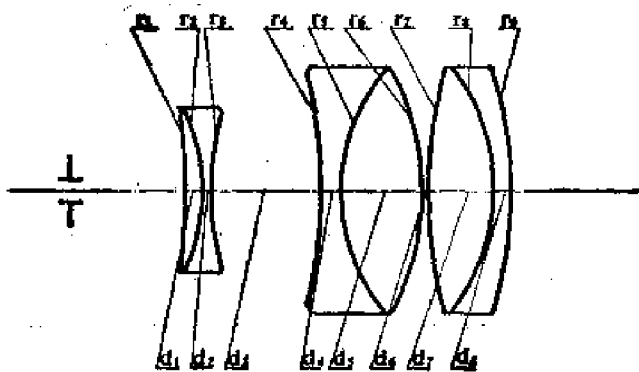
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_6$ | HI     | QP(1 $\omega$ ) |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | 0.00064      | 0.00074      | -0.00056     | 0.00586      | 0.01995      | 10.05  | 2.3%            |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l'_p$       | LA'          | OSC'         | $x'_s$       | $x'_s$ | $x'_t - x'_s$   | $K'_{f1}$ | $K'_{f0.7}$ | $\Delta H'$ |
| 100            | -17.5        | 69.4         | 0.200        | 0.0009       | 0.934        | 1.566  | -0.632          | 0.0213    | 0.0107      | 0.23        |
| 70             |              |              | 0.100        | 0.0004       | 0.560        | 0.788  | -0.228          | 0.0178    | 0.0088      | 0.08        |



编号: 08-01-002

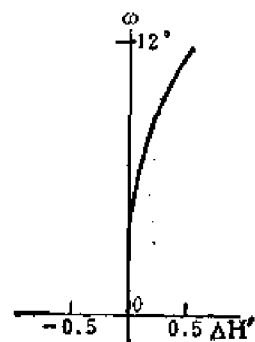
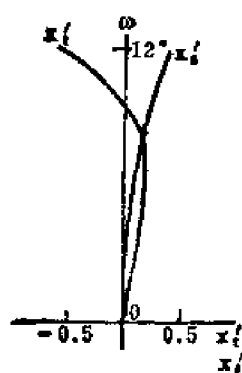
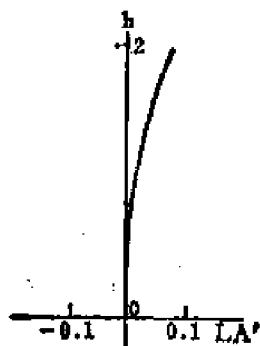
# 目 镜

E.F.L=104.5    B.F.L=161.82     $\phi_{出}/2=2^{\circ}$     F.A.= $\pm 12^{\circ}$



| 序号 | r    | d    | n    | v  |
|----|------|------|------|----|
| 1  | -270 | 5.0  | 1.62 | 37 |
| 2  | -73  | 4.0  | 1.62 | 55 |
| 3  | 107  | 38.0 |      |    |
| 4  | -223 | 7.0  | 1.65 | 34 |
| 5  | 73   | 29.0 | 1.62 | 60 |
| 6  | -91  | 0.2  |      |    |
| 7  | 202  | 22.0 | 1.61 | 59 |
| 8  | -73  | 7.0  | 1.65 | 34 |
| 9  | -138 |      |      |    |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|----------|------------|-------------|
|                | 0.00005      | 0.00017      | 0.00013      | 0.00032      | 0.02066      | 22.20  | 2.2%          |          |            |             |
| h 或 $\omega$ % | $L_p$        | $i_p'$       | LA'          | OSC'         | $x_i'$       | $x_a'$ | $x_i' - x_a'$ | $K_{T1}$ | $K_{T0.7}$ | $\Delta H'$ |
| 100            | -40**        | 614.2        | 0.075        | 0.0002       | -0.690       | 0.338  | -1.028        | 0.00077  | 0.00047    | -0.49       |
| 70             |              |              | 0.037        | 0.0001       | 0.167        | 0.250  | -0.083        | 0.00626  | 0.00313    | 0.18        |



编号: 08-01-003

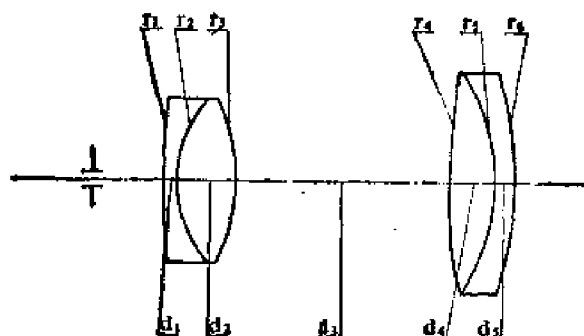
# 目 镜

E.F.L=100

B.F.L=17.39

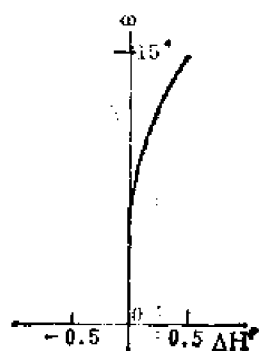
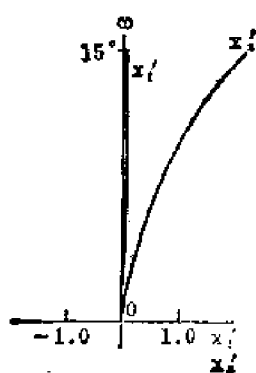
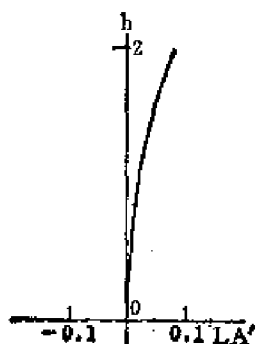
$\phi_{\text{出}}/2=2^{\circ}$

F.A.= $\pm 15^{\circ}$



| 序号 | r      | d    | n     | v    |
|----|--------|------|-------|------|
| 1  | 257.6  | 4.5  | 1.649 | 33.8 |
| 2  | 45.2   | 20.2 | 1.573 | 57.4 |
| 3  | -69.6  | 75.8 |       |      |
| 4  | 222.0  | 15.2 | 1.517 | 64.5 |
| 5  | -74.5  | 6.1  | 1.649 | 33.8 |
| 6  | -156.0 |      |       |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | 0.00006      | -0.00007     | -0.00080     | 0.00271      | 0.02172      | 28.79  | 1.9%            |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | $LA'$        | $OSC'$       | $x_1'$       | $x_2'$ | $x_1' - x_2'$   | $K_{f1}'$ | $K_{f0.7}'$ | $\Delta H'$ |
| 100            | -25**        | -459.6       | 0.077        | -0.00007     | 0.036        | 2.252  | -2.216          | -0.0071   | -0.0035     | 0.51        |
| 70             |              |              | 0.038        | -0.00003     | 0.108        | 1.134  | -1.026          | -0.0044   | -0.0021     | 0.18        |



编号: 08-01-004

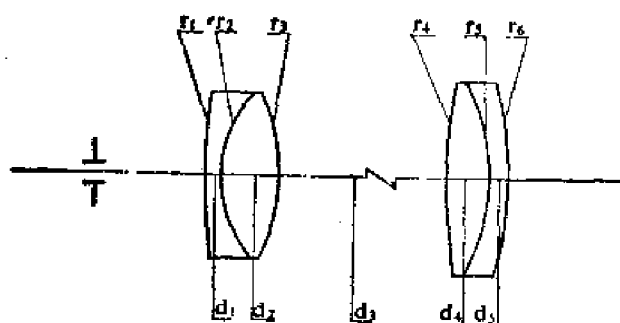
## 目 镜

E.F.L=65.9

B.F.L=11.46

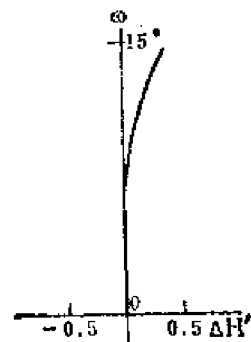
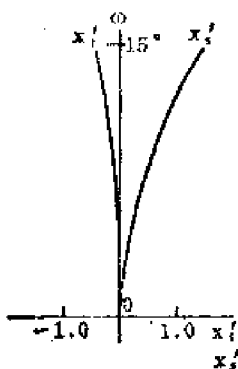
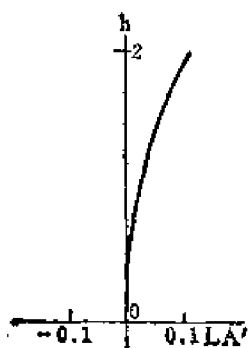
$\phi_{\text{出}}/2=2^{**}$

F.A. =  $\pm 15^\circ$



| 序号 | r      | d    | n     | v    |
|----|--------|------|-------|------|
| 1  | 169.7  | 3.0  | 1.649 | 33.8 |
| 2  | 29.8   | 13.3 | 1.573 | 57.4 |
| 3  | -45.9  | 50.0 |       |      |
| 4  | 146.2  | 10.0 | 1.517 | 64.5 |
| 5  | -49.1  | 4.0  | 1.649 | 33.8 |
| 6  | -102.9 |      |       |      |

|                |              |              |              |              |              |        |                 |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|                | 0.00021      | 0.00007      | -0.00133     | 0.00412      | 0.02187      | 17.66  | 1.8%            |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | $LA'$        | OSC'         | $x_1'$       | $x_2'$ | $x_1' - x_2'$   | $K_{T1}'$ | $K_{T0.7}'$ | $\Delta H'$ |
| 100            | -25          | -898.9       | 0.117        | 0.00006      | -0.47        | 1.38   | -1.85           | -0.002    | -0.001      | 0.33        |
| 70             |              |              | 0.058        | 0.00003      | -0.68        | 0.71   | -0.79           | 0.0008    | 0.0004      | 0.11        |



编号: 08-01-005

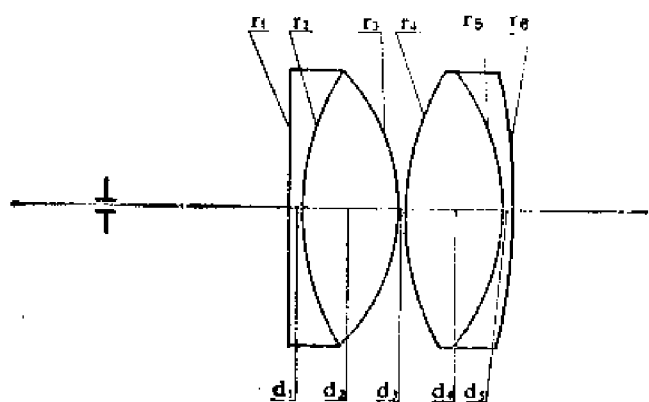
## 望远镜 目镜

E.F.L=100英寸

B.F.L=67.7

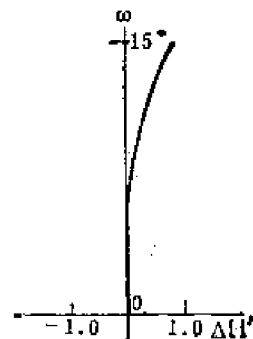
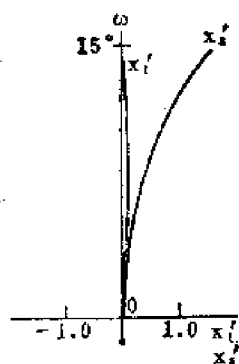
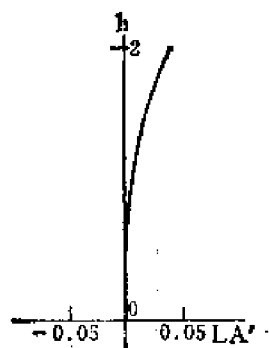
$\phi_{出}/2=2^{\circ}$

F.A. =  $\pm 15^{\circ}$



| 序号 | r        | d    | n      | v    |
|----|----------|------|--------|------|
| 1  | $\infty$ | 6.5  | 1.6200 | 36.3 |
| 2  | 141      | 48.4 | 1.5891 | 61.2 |
| 3  | -101.5   | 0.6  |        |      |
| 4  | 147      | 48.4 | 1.5891 | 61.2 |
| 5  | -99.3    | 6.5  | 1.7283 | 28.3 |
| 6  | -365     |      |        |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI    | QP(1 $\omega$ ) |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|-------|-----------------|-----------|-------------|-------------|
|                | 0.00002      | 0.00008      | -0.00059     | 0.00193      | 0.02265      | 26.79 | 2.9%            |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l_p$        | $LA'$        | OSC'         | $x_i$        | $x_o$ | $x_i - x_o$     | $K'_{f1}$ | $K'_{f0.7}$ | $\Delta H'$ |
| 100            | -64          | 5694         | 0.035        | 0.00007      | 0.004        | 1.573 | -1.569          | 0.0056    | 0.0028      | 0.79        |
| 70             |              |              | 0.017        | 0.00003      | 0.048        | 0.792 | -0.744          | 0.0041    | 0.0021      | 0.28        |

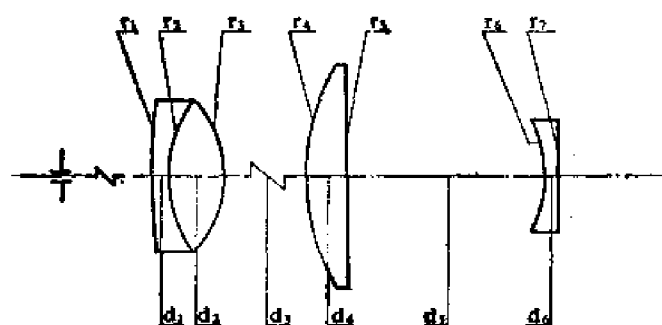




编号: 08-01-006

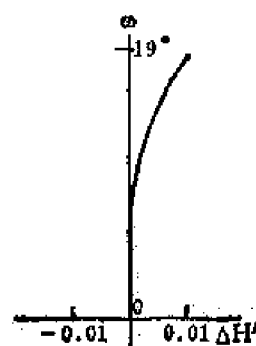
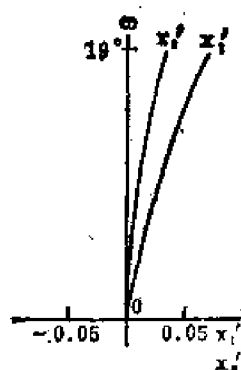
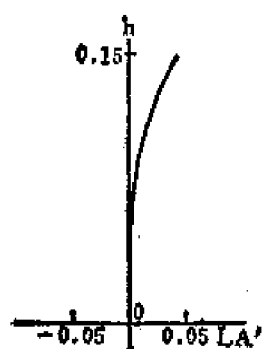
## 显微镜、望远镜等光学仪器的目镜

E.F.L=0.5      B.F.L=-0.61       $\phi_{\text{出}}/2=0.15^{**}$       F.A.= $\pm 19^{**}$



| 序号 | r        | d    | n       | v    |
|----|----------|------|---------|------|
| 1  | 1.8400   | 0.05 | 1.70050 | 30.2 |
| 2  | 0.4496   | 0.20 | 1.51757 | 64.1 |
| 3  | -0.4063  | 1.36 |         |      |
| 4  | 0.7810   | 0.15 | 1.70050 | 30.2 |
| 5  | $\infty$ | 0.70 |         |      |
| 6  | -0.4299  | 0.05 | 1.51757 | 64.1 |
| 7  | $\infty$ |      |         |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | 0.0055       | 0.0044       | 0.0054       | 0.0017       | 0.0075       | 0.17   | 5.4%            |           |             |             |
| h 或 $\omega$ % | $I_p$        | $l_p'$       | LA'          | OSC'         | $x_1'$       | $x_2'$ | $x_1' - x_2'$   | $K_{F1}'$ | $K_{F0.7}'$ | $\Delta H'$ |
| 100            | -0.5**       | 2.98         | 0.034        | 0.0452       | 0.067        | 0.032  | 0.035           | -0.029    | 0.001       | 0.009       |
| 70             |              |              | 0.015        | 0.0221       | 0.041        | 0.017  | 0.024           | 0.017     | 0.008       | 0.003       |



编号: 08-01-007

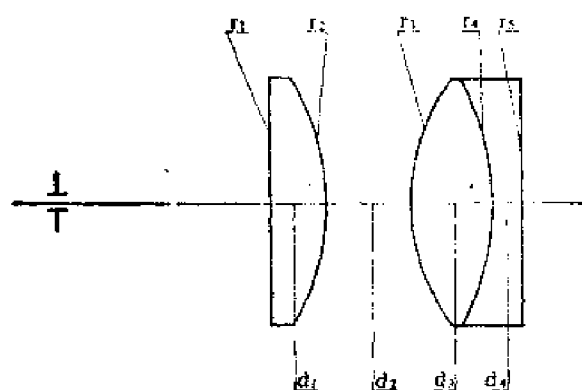
## 目 镜

E.F.L. = 100

B.F.L. = 55.51

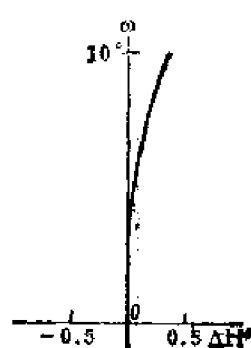
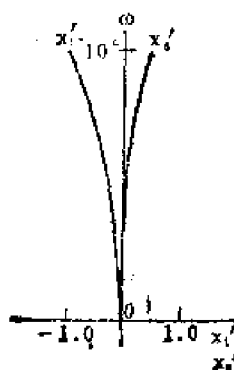
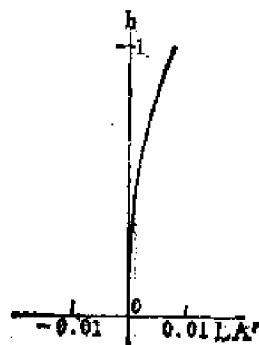
$\phi_w/2 = 1^{**}$

F.A. =  $\pm 10^{**}$



| 序号 | r        | d    | n      | v    |
|----|----------|------|--------|------|
| 1  | $\infty$ | 20.7 | 1.5163 | 64.0 |
| 2  | -91.2    | 29.8 |        |      |
| 3  | 74.5     | 29.0 | 1.5163 | 64.0 |
| 4  | -91.2    | 10.0 | 1.7283 | 28.3 |
| 5  | $\infty$ |      |        |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |              |                  |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|--------------|------------------|-------------|
|                | 0.000001     | 0            | -0.00013     | 0.00023      | 0.00395      | 17.63  | 1.8%            |              |                  |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | $LA'$        | $OSC'$       | $x_1'$       | $x_4'$ | $x_1' - x_4'$   | $K\hat{T}_1$ | $K\hat{T}_{0.7}$ | $\Delta H'$ |
| 100            | -76.3        | 78364        | 0.007        | 0            | -1.04        | 0.427  | -1.467          | -0.00002     | -0.00001         | 0.31        |
| 70             |              |              | 0.003        | 0            | -0.46        | 0.228  | -0.688          | -0.000007    | -0.000003        | 0.11        |



编号: 08-01-008

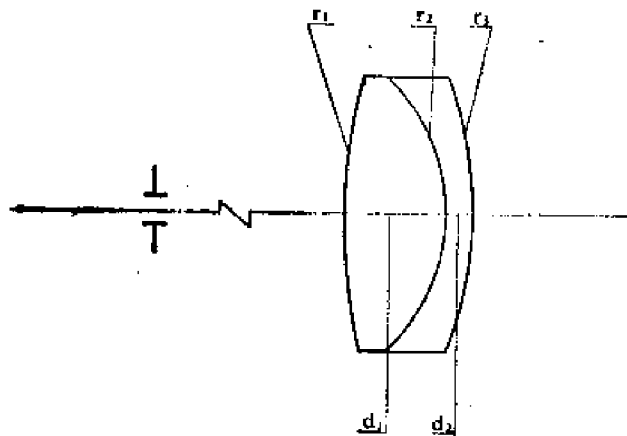
# 放 大 镜

E.F.L=41.7

B.F.L=39.57

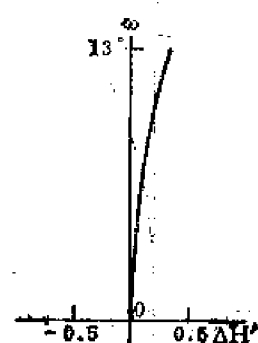
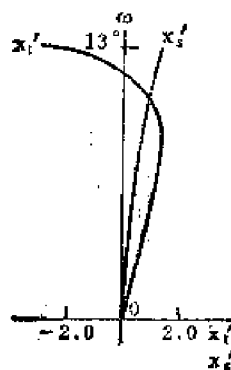
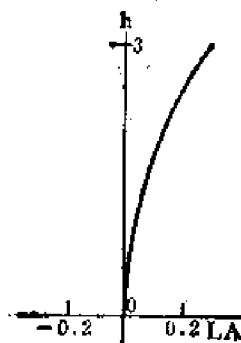
$\phi_{\text{目}}/2=3^{**}$

F.A. =  $\pm 13^{**}$



| 序号 | r      | d   | n       | v    |
|----|--------|-----|---------|------|
| 1  | 51.71  | 7.1 | 1.51625 | 64.0 |
| 2  | -14.28 | 2.0 | 1.61992 | 36.3 |
| 3  | -28.12 |     |         |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1m)        |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|                | 0.0029       | 0.0062       | 0.0147       | 0.0082       | 0.0904       | 9.62   | 3.9%          |           |             |             |
| h 或 $\omega$ % | $L_p$        | $i_p$        | $LA'$        | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$ | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -44**        | 311.7        | 0.281        | 0.0043       | -2.92        | 1.10   | -4.02         | -1.091    | -0.366      | 0.37        |
| 70             |              |              | 0.141        | 0.0022       | 1.48         | 0.91   | 0.57          | -0.024    | -0.002      | 0.19        |



编号: 08-01-009

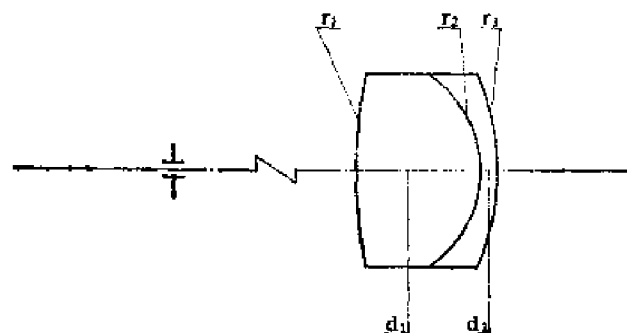
## 放 大 镜

E.F.L=41.8

B.F.L=37.34

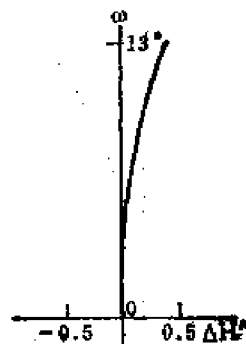
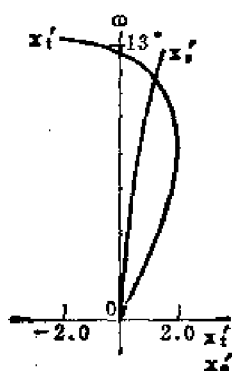
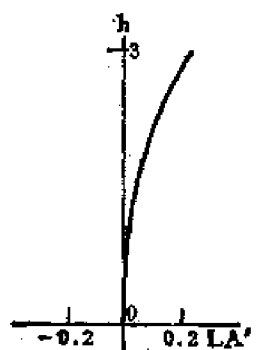
$\phi_{出}/2=3^{**}$

F.A.= $\pm 13^{**}$



| 序号 | r      | d    | n       | v    |
|----|--------|------|---------|------|
| 1  | 53.22  | 14.6 | 1.56018 | 61.2 |
| 2  | -14.01 | 2.0  | 1.61992 | 36.3 |
| 3  | -32.12 |      |         |      |

|                |              |              |              |              |              |        |                 |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | III    | QP(1 $\omega$ ) |           |             |             |
|                | 0.0026       | 0.0063       | 0.0171       | 0.0081       | 0.1006       | 9.65   | 4.4%            |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | LA'          | OSC'         | $x_1'$       | $x_2'$ | $x_1' - x_2'$   | $K_{T1}'$ | $K_{T0.7}'$ | $\Delta H'$ |
| 100            | -44**        | 229          | 0.257        | 0.0045       | -2.43        | 1.36   | -3.79           | -1.553    | -0.413      | 0.43        |
| 70             |              |              | 0.129        | 0.0023       | 1.91         | 1.04   | 0.87            | 0         | 0.0078      | 0.21        |



编号: 08-01-010

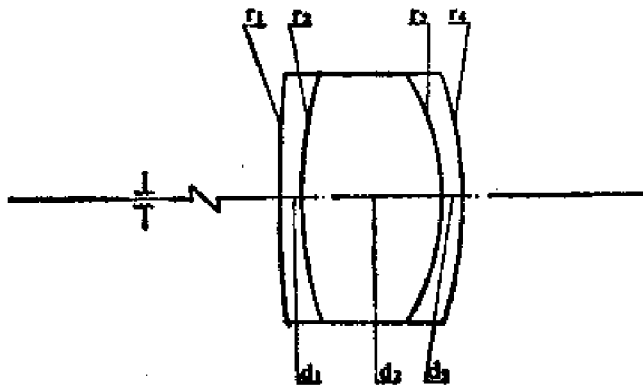
## 三胶合放大镜

E.F.L=63.92

B.F.L=63.8

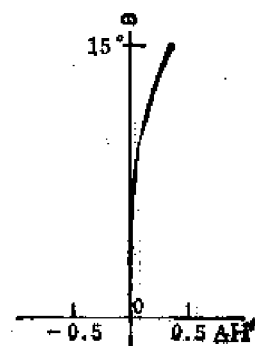
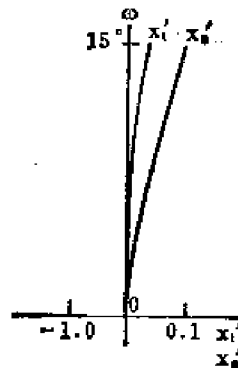
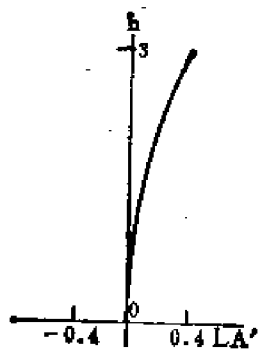
$\phi_H/2=3^{**}$

F.A.= $\pm 15^{**}$



| 序号 | r      | d    | n       | v     |
|----|--------|------|---------|-------|
| 1  | 370.64 | 1.52 | 1.52620 | 51.00 |
| 2  | 34.66  | 9.52 | 1.51671 | 64.20 |
| 3  | -17.60 | 1.52 | 1.66662 | 33.09 |
| 4  | -29.00 |      |         |       |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |         |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|---------|------------|-------------|
|                | 0.0018       | 0.00003      | -0.0015      | 0.0072       | 0.0347       | 17.1   | 2.1%            |         |            |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | $LA'$        | OSC'         | $x_i'$       | $x_s'$ | $x_i' - x_s'$   | $Kf_1$  | $Kf_{0.7}$ | $\Delta H'$ |
| 100            | -20**        | -50.3        | 0.407        | 0            | 0.424        | 1.205  | -0.781          | -0.0111 | -0.0048    | 0.36        |
| 70             |              |              | 0.204        | 0            | 0.257        | 0.613  | -0.356          | -0.0038 | -0.0015    | 0.12        |



编号: 08-01-011

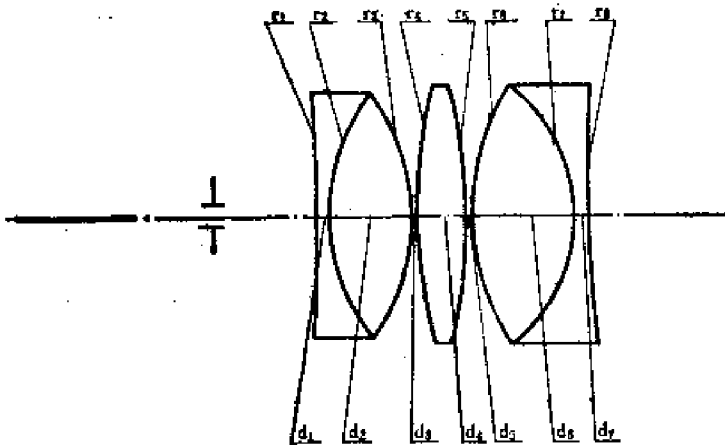
# 目 镜

E.F.L=1英寸

B.F.L=0.47

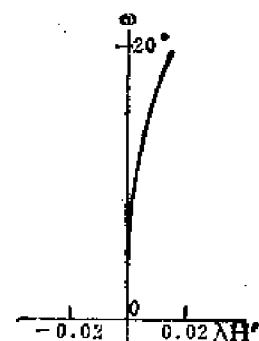
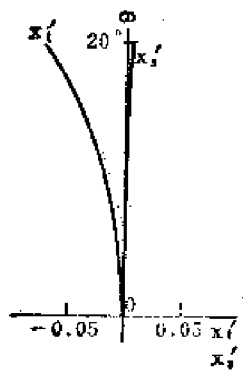
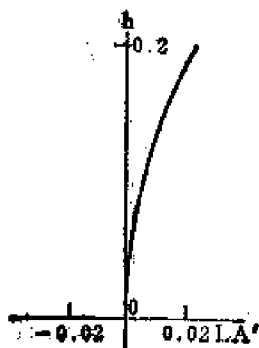
$\phi_{\text{出}}/2=0.2^{**}$

F.A.= $\pm 20'^{**}$



| 序号 | r       | d     | n      | v    |
|----|---------|-------|--------|------|
| 1  | -34.013 | 0.067 | 1.6202 | 36.2 |
| 2  | 1.243   | 0.466 | 1.5399 | 59.4 |
| 3  | -1.243  | 0.007 |        |      |
| 4  | 2.831   | 0.306 | 1.5163 | 64.0 |
| 5  | -2.831  | 0.007 |        |      |
| 6  | 1.472   | 0.600 | 1.5399 | 59.4 |
| 7  | -1.085  | 0.067 | 1.6202 | 36.2 |
| 8  | 7.347   |       |        |      |

|                |              |              |              |              |              |        |                 |         |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|---------|------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |         |            |             |
|                | 0.0018       | -0.0001      | -0.0027      | 0.0034       | 0.0072       | 0.37   | 4.2%            |         |            |             |
| h 或 $\omega$ % | $L_p$        | $l_f'$       | $LA'$        | OSC'         | $x_i'$       | $x_s'$ | $x_i' - x_s'$   | $K_T^f$ | $K_{T0.7}$ | $\Delta H'$ |
| 100            | -0.60        | -26.5        | 0.024        | -0.0008      | -0.071       | 0.006  | -0.077          | -0.0025 | -0.0011    | 0.015       |
| 70             |              |              | 0.012        | -0.0004      | -0.031       | 0.003  | -0.034          | -0.0011 | -0.0005    | 0.005       |



编号: 08-01-012

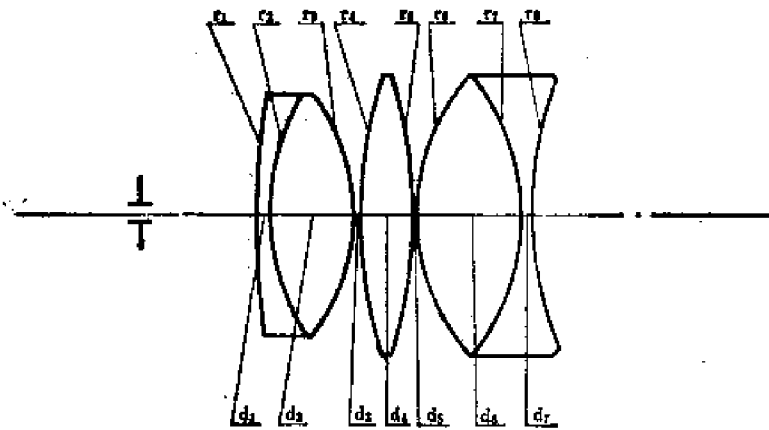
# 目 镜

E.F.L=1英寸

B.F.L=0.365

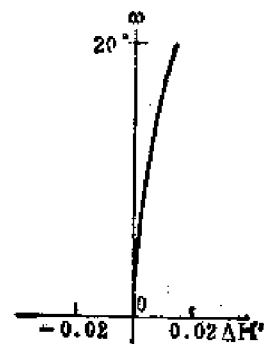
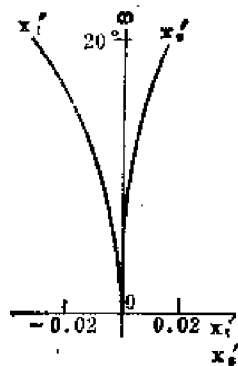
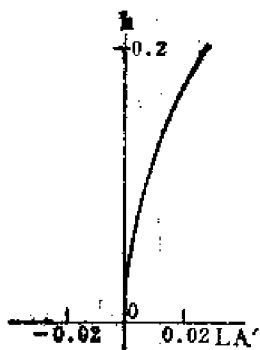
$\phi_{\text{出}}/2=0.2^{\circ}$

F.A.= $\pm 20'$



| 序号 | r      | d     | n      | v    |
|----|--------|-------|--------|------|
| 1  | 6.873  | 0.067 | 1.6202 | 36.2 |
| 2  | 1.392  | 0.466 | 1.5163 | 64.0 |
| 3  | -1.166 | 0.007 |        |      |
| 4  | 2.831  | 0.306 | 1.5163 | 64.0 |
| 5  | -2.831 | 0.007 |        |      |
| 6  | 1.312  | 0.600 | 1.5163 | 64.0 |
| 7  | -1.312 | 0.067 | 1.6202 | 36.2 |
| 8  | 2.231  |       |        |      |

|                |              |              |              |              |              |        |                 |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|                | 0.0021       | 0.0005       | -0.0019      | 0.0032       | 0.0077       | 0.36   | 4.6%            |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l_p$        | LA'          | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$   | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -0.686       | -15.5        | 0.027        | 0.0038       | -0.037       | 0.014  | -0.051          | 0.0038    | 0.0018      | 0.016       |
| 70             |              |              | 0.013        | 0.0018       | -0.016       | 0.007  | -0.023          | 0.0027    | 0.0013      | 0.006       |



编号: 08-01-013

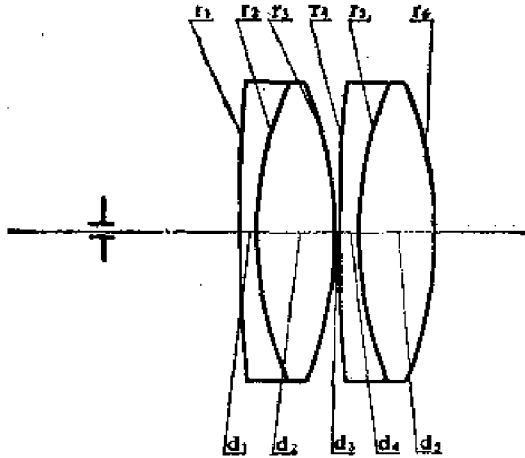
## 目 镜

E.F.L=1英寸

B.F.L=0.938

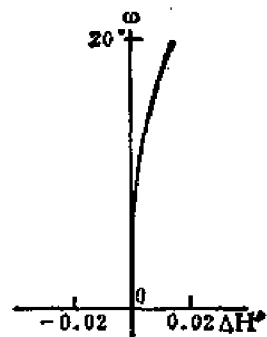
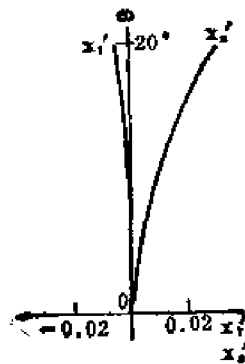
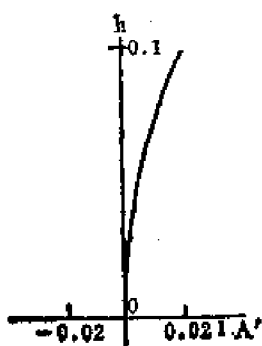
$\phi_H/2=0.1^{\circ}$

F.A.= $\pm 20^{\circ}$



| 序号 | r      | d      | n      | v    |
|----|--------|--------|--------|------|
| 1  | 25.510 | 0.0410 | 1.6202 | 36.2 |
| 2  | 0.936  | 0.1850 | 1.5399 | 59.4 |
| 3  | -0.936 | 0.0019 |        |      |
| 4  | 25.510 | 0.0410 | 1.6202 | 36.2 |
| 5  | 0.936  | 0.1850 | 1.5399 | 59.4 |
| 6  | -0.936 |        |        |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|----------|------------|-------------|
|                | 0.0004       | 0            | -0.0003      | 0.0009       | 0.0032       | 0.36   | 4.1%          |          |            |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | $LA'$        | OSC'         | $x_1'$       | $x_2'$ | $x_1' - x_2'$ | $K_{T1}$ | $K_{T0.7}$ | $\Delta H'$ |
| 100            | -0.317       | -1.2         | 0.021        | 0.0001       | -0.005       | 0.027  | -0.032        | 0.00007  | 0.00005    | 0.015       |
| 70             |              |              | 0.011        | 0.00007      | -0.001       | 0.014  | -0.015        | 0.00006  | 0.00004    | 0.005       |

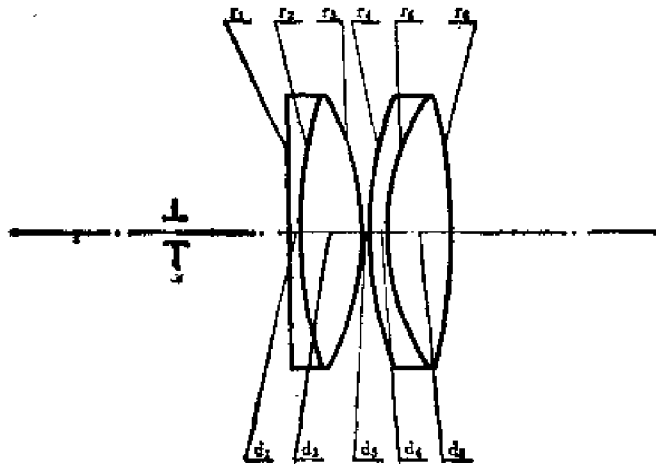




编号: 08-01-014

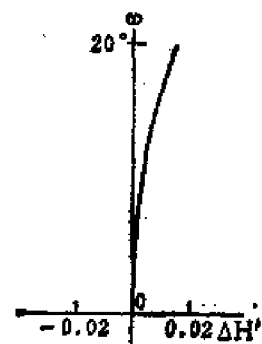
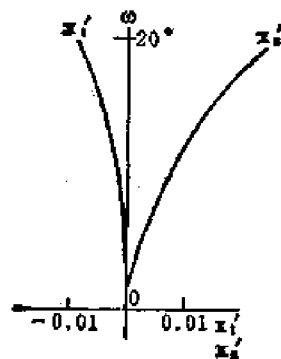
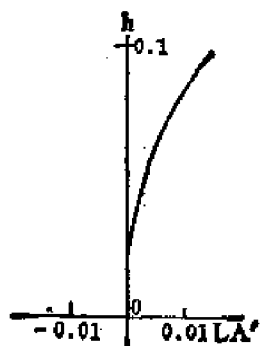
## 目 镜

E.F.L=1英寸 B.F.L=0.891  $\phi_{\text{出}}/2=0.1^{**}$  F.A.= $\pm 20^{**}$



| 序号 | r       | d     | n      | v    |
|----|---------|-------|--------|------|
| 1  | -67.613 | 0.041 | 1.6489 | 33.8 |
| 2  | 1.484   | 0.186 | 1.5163 | 64.0 |
| 3  | -0.844  | 0.002 |        |      |
| 4  | 1.517   | 0.041 | 1.6489 | 33.8 |
| 5  | 0.742   | 0.184 | 1.5163 | 64.0 |
| 6  | -2.047  |       |        |      |

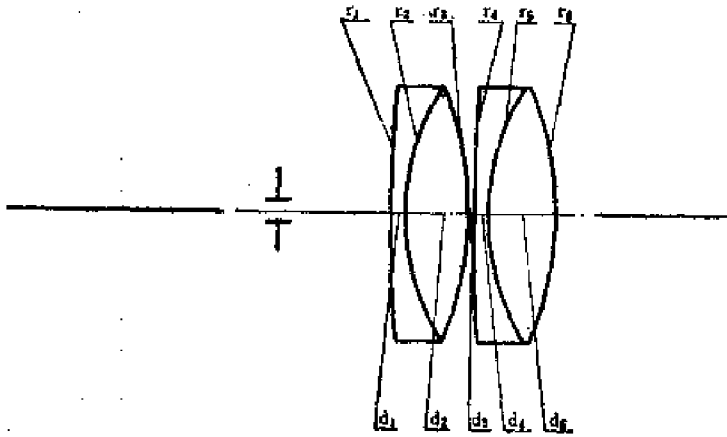
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|----------|------------|-------------|
|                | 0.00028      | -0.00017     | -0.00034     | 0.00095      | 0.00371      | 0.36   | 4.7%            |          |            |             |
| h 或 $\omega$ % | $L_p$        | $l'_p$       | LA'          | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$   | $K_{f1}$ | $K_{f0.7}$ | $\Delta H'$ |
| 100            | -0.317       | -1.14        | 0.014        | -0.002       | -0.009       | 0.026  | -0.035          | -0.002   | -0.001     | 0.017       |
| 70             |              |              | 0.007        | -0.001       | -0.003       | 0.013  | -0.016          | -0.0018  | -0.0009    | 0.006       |



编号: 08-01-015

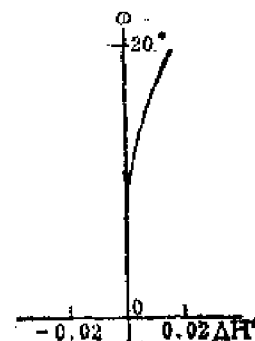
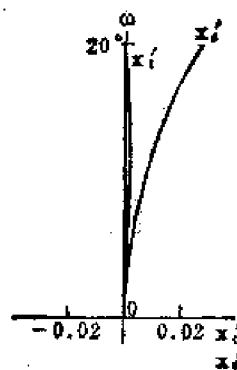
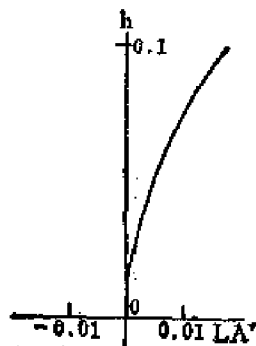
## 目 镜

E.F.L=1英寸 B.F.L=0.932  $\phi_{in}/2=0.1^{**}$  F.A. =  $\pm 20^{**}$



| 序号 | r       | d     | n      | v    |
|----|---------|-------|--------|------|
| 1  | 169.491 | 0.040 | 1.6031 | 36.9 |
| 2  | 0.729   | 0.185 | 1.5726 | 57.5 |
| 3  | -1.029  | 0.002 |        |      |
| 4  | 169.491 | 0.040 | 1.6031 | 36.9 |
| 5  | 0.729   | 0.185 | 1.5726 | 57.5 |
| 6  | -1.029  |       |        |      |

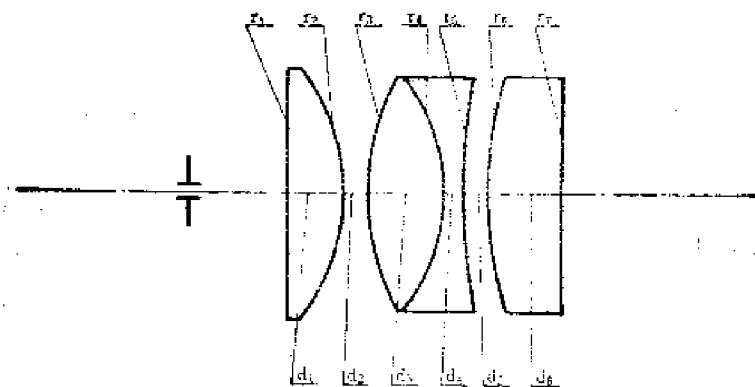
|                |              |              |              |              |              |        |                 |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | IH     | QP(1 $\omega$ ) |           |             |             |
|                | 0.00037      | -0.00002     | -0.00027     | 0.00090      | 0.00346      | 0.36   | 4.3%            |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | $LA'$        | $OSC'$       | $x_1'$       | $x_2'$ | $x_1' - x_2'$   | $K_{T1}'$ | $K_{T0.7}'$ | $\Delta H'$ |
| 100            | -0.317       | -1.2         | 0.018        | -0.0003      | 0            | 0.027  | -0.027          | -0.0004   | -0.0002     | 0.016       |
| 70             |              |              | 0.009        | -0.0001      | 0.001        | 0.014  | -0.013          | -0.0002   | -0.0001     | 0.005       |



编号: 08-01-016

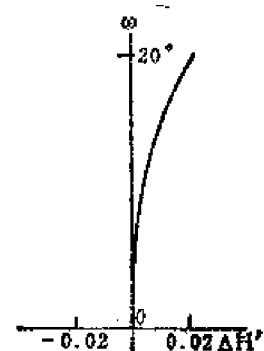
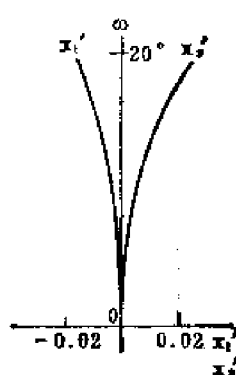
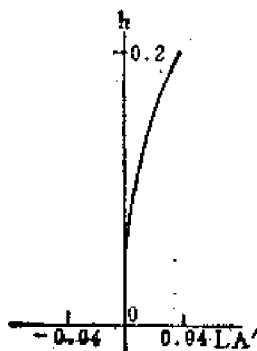
# 目 镜

E.F.L = 1 英寸    B.F.L = 0.374     $\phi_H/2 = 0.2^{**}$     F.A. =  $\pm 20^{**}$



| 序号 | r        | d     | n     | v**   |
|----|----------|-------|-------|-------|
| 1  | $\infty$ | 0.230 | 1.573 | 42.58 |
| 2  | -0.885   | 0.100 |       |       |
| 3  | 1.042    | 0.300 | 1.516 | 64.1  |
| 4  | -0.798   | 0.090 | 1.648 | 33.8  |
| 5  | 2.824    | 0.100 |       |       |
| 6  | 1.770    | 0.300 | 1.516 | 64.1  |
| 7  | $\infty$ |       |       |       |

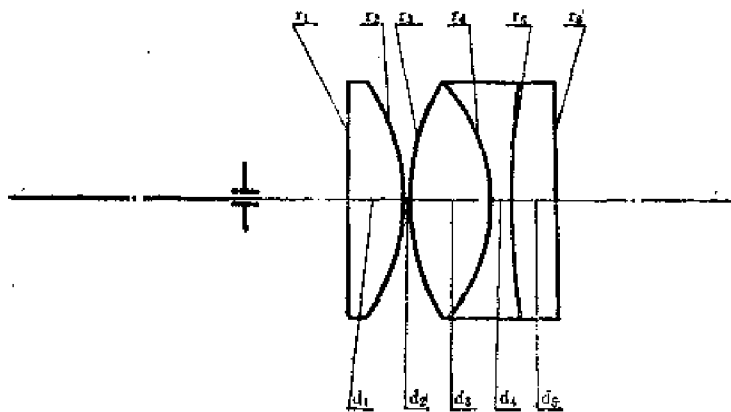
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | Ht     | $Q^{(1)}(\omega)$ |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-------------------|-----------|-------------|-------------|
|                | 0.6028       | -0.0017      | -0.0015      | 0.0038       | 0.0041       | 0.36   | 5.5%              |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | $LA'$        | $OSC'$       | $x_1'$       | $x_2'$ | $x_1' - x_2'$     | $K_{T1}'$ | $K_{T0.7}'$ | $\Delta H'$ |
| 100            | -0.40        | -2.1         | 0.037        | -0.008       | -0.017       | 0.023  | -0.040            | -0.0100   | -0.0047     | 0.021       |
| 70             |              |              | 0.018        | -0.004       | -0.006       | 0.012  | -0.018            | -0.0066   | -0.0031     | 0.007       |



编号: 08-01-017

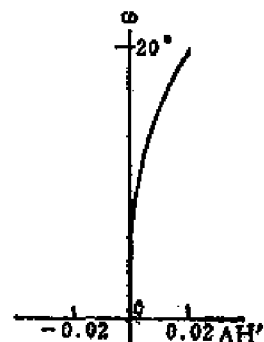
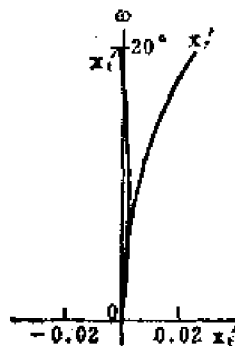
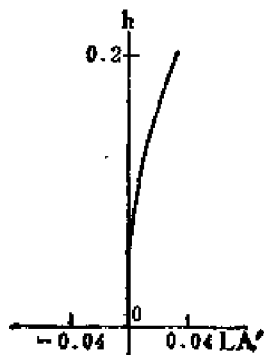
## 目 镜

E.F.L=0.98英寸 B.F.L=0.542  $\phi_m/2=0.2^{**}$  F.A.= $\pm 20^{**}$



| 序号 | r        | d     | n     | v**   |
|----|----------|-------|-------|-------|
| 1  | $\infty$ | 0.230 | 1.573 | 42.58 |
| 2  | -0.890   | 0.010 |       |       |
| 3  | 0.973    | 0.340 | 1.516 | 64.14 |
| 4  | -0.720   | 0.090 | 1.648 | 33.80 |
| 5  | 5.203    | 0.180 | 1.516 | 64.14 |
| 6  | $\infty$ |       |       |       |

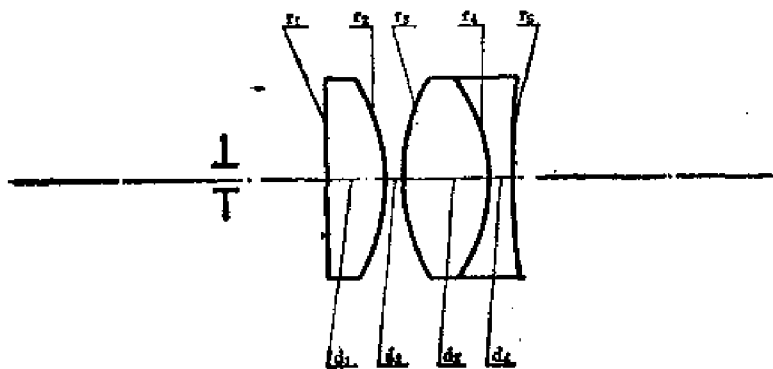
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | 0.0026       | -0.0015      | -0.0010      | 0.0036       | 0.0041       | 0.36   | 6.0%            |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | LA'          | OSC'         | $x_1'$       | $x_2'$ | $x_1' - x_2'$   | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -0.40        | -1.47        | 0.034        | -0.010       | -0.001       | 0.025  | -0.026          | -0.014    | -0.006      | 0.021       |
| 70             |              |              | 0.016        | -0.005       | 0.001        | 0.013  | -0.012          | -0.009    | -0.004      | 0.007       |



编号: 08-01-018

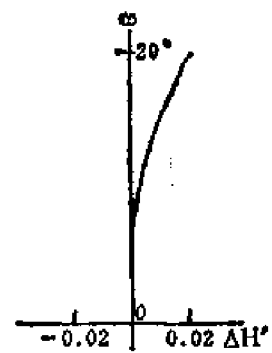
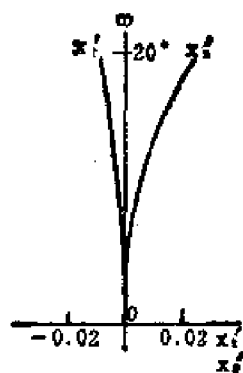
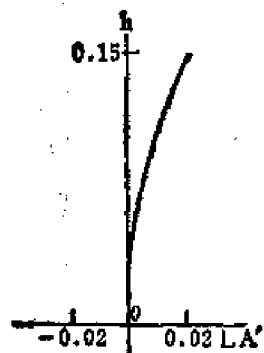
## 目 镜

E.F.L = 1 英寸    B.F.L = 0.622     $\phi_H/2 = 0.15^{**}$     F.A. =  $\pm 20^{**}$



| 序号 | r        | d     | n     | v**   |
|----|----------|-------|-------|-------|
| 1  | $\infty$ | 0.230 | 1.573 | 42.58 |
| 2  | -0.880   | 0.100 |       |       |
| 3  | 0.971    | 0.340 | 1.516 | 64.10 |
| 4  | -0.718   | 0.090 | 1.648 | 33.80 |
| 5  | 16.529   |       |       |       |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |          |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|----------|-------------|-------------|
|                | 0.0009       | -0.0006      | -0.0007      | 0.0020       | 0.0029       | 0.36   | 5.9%            |          |             |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | $LA'$        | $OSC'$       | $x_1'$       | $x_4'$ | $x_1' - x_4'$   | $K_{T1}$ | $K_{T0.7}'$ | $\Delta H'$ |
| 100            | -0.40        | -1.5         | 0.022        | -0.005       | -0.012       | 0.023  | -0.035          | -0.0075  | -0.0036     | 0.021       |
| 70             |              |              | 0.011        | -0.002       | -0.003       | 0.012  | -0.015          | -0.0048  | -0.0023     | 0.007       |



编号: 08-01-019

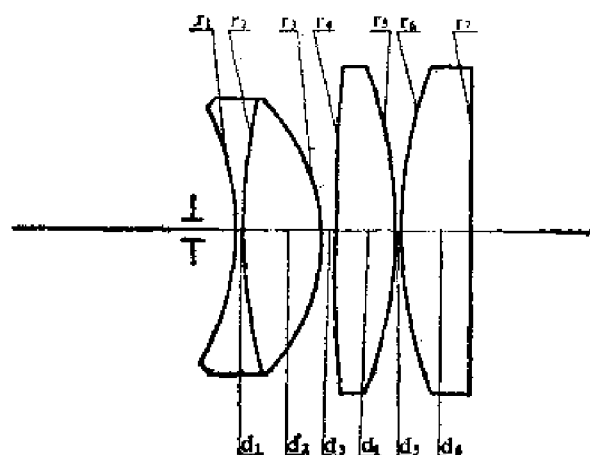
## 目 镜

E.F.L = 1 英寸

B.F.L = 0.968

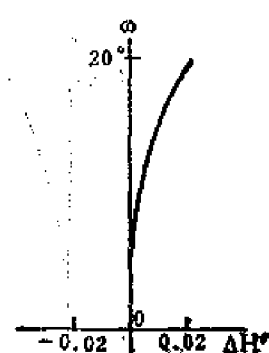
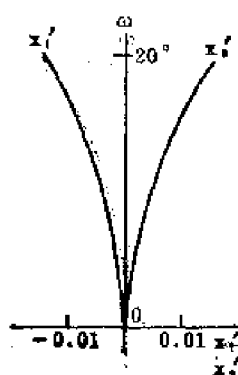
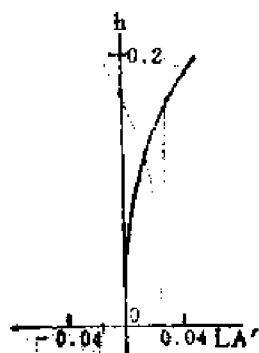
$\phi_{\text{出}}/2 = 0.2^{\circ}$

F.A. =  $\pm 20^{\circ}$



| 序号 | r        | d     | n      | v    |
|----|----------|-------|--------|------|
| 1  | -1.035   | 0.025 | 1.6477 | 33.9 |
| 2  | 2.219    | 0.310 | 1.4881 | 70.6 |
| 3  | -0.733   | 0.005 |        |      |
| 4  | 5.900    | 0.210 | 1.6073 | 59.5 |
| 5  | -1.800   | 0.010 |        |      |
| 6  | 1.590    | 0.250 | 1.6073 | 59.5 |
| 7  | $\infty$ |       |        |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(10)        |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|                | 0.0035       | -0.0020      | -0.0014      | 0.0029       | 0.0094       | 0.36   | 5.9%          |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l'_p$       | $LA'$        | OSC'         | $x'_i$       | $x'_s$ | $x'_i - x'_s$ | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -0.15        | -1.3         | 0.046        | -0.014       | -0.016       | 0.015  | -0.031        | -0.016    | -0.007      | 0.021       |
| 70             |              |              | 0.022        | -0.007       | -0.007       | 0.008  | -0.015        | -0.011    | -0.005      | 0.007       |



编号: 08-01-020

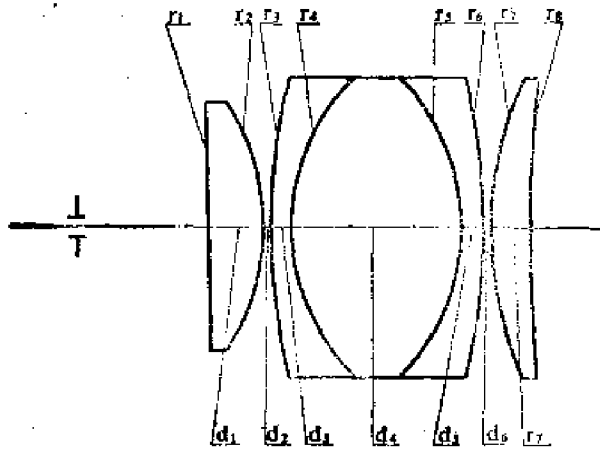
## 目 镜

E.F.L = 1 英寸

B.F.L = 0.428

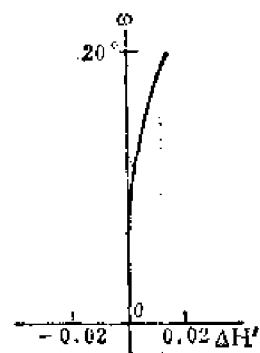
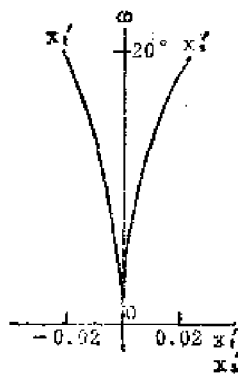
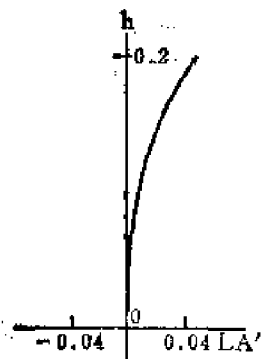
$\phi_{\text{出}}/2 = 0.2^{**}$

F.A. =  $\pm 20^{**}$



| 序号 | r        | d      | n      | v    |
|----|----------|--------|--------|------|
| 1  | $\infty$ | 0.2540 | 1.6139 | 56.4 |
| 2  | -0.999   | 0.0063 |        |      |
| 3  | 3.301    | 0.0952 | 1.6733 | 32.0 |
| 4  | 0.952    | 0.7619 | 1.6139 | 56.4 |
| 5  | -0.952   | 0.0952 | 1.6733 | 32.0 |
| 6  | -3.301   | 0.0063 |        |      |
| 7  | 1.631    | 0.1905 | 1.6139 | 56.4 |
| 8  | 7.008    |        |        |      |

|                |              |              |              |              |              |        |               |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|----------|------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     |               | QP(1%)   |            |             |
|                | 0.0032       | 0.0009       | -0.0020      | 0.0040       | 0.0011       | 0.36   |               | 4.1%     |            |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | $LA'$        | OSC'         | $x_1'$       | $x_2'$ | $x_1' - x_2'$ | $K_{F1}$ | $K_{T0.7}$ | $\Delta H'$ |
| 100            | -0.59        | -254         | 0.041        | 0.0069       | -0.023       | 0.023  | -0.046        | 0.0081   | 0.0039     | 0.015       |
| 70             |              |              | 0.020        | 0.0033       | -0.012       | 0.011  | -0.023        | 0.0054   | 0.0026     | 0.005       |



编号: 08-01-021

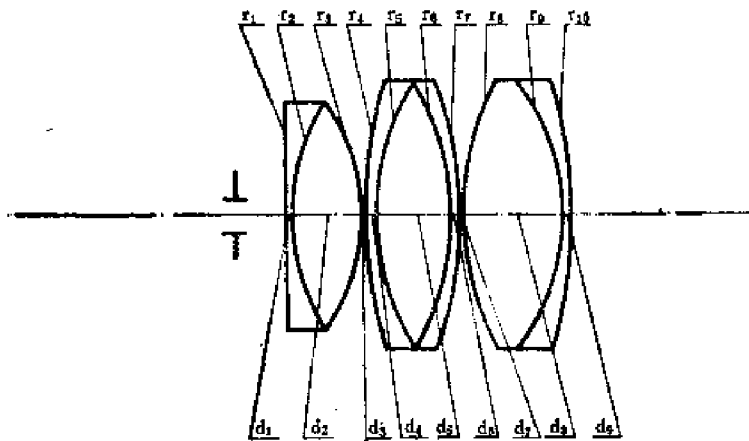
## 目 镜

E.F.L = 1 英寸

B.F.L = 0.506

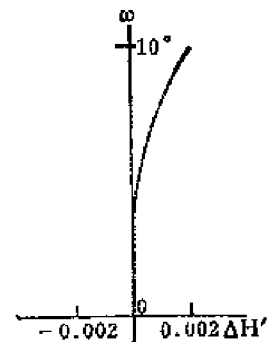
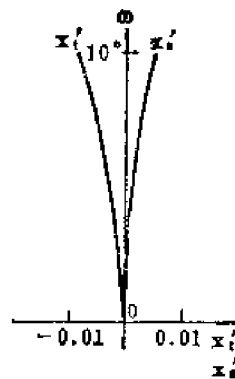
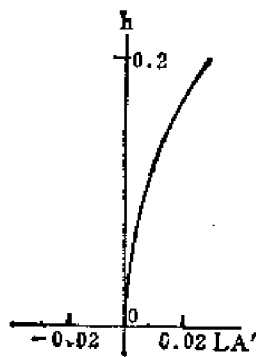
$\phi_{出}/2 = 0.2^{**}$

F.A. =  $\pm 10^{**}$



| 序号 | r        | d      | n      | v    |
|----|----------|--------|--------|------|
| 1  | $\infty$ | 0.0317 | 1.6489 | 33.8 |
| 2  | 1.333    | 0.3937 | 1.5162 | 64.0 |
| 3  | -1.155   | 0.0063 |        |      |
| 4  | 3.175    | 0.0317 | 1.6489 | 33.8 |
| 5  | 1.587    | 0.4127 | 1.5162 | 64.0 |
| 6  | -1.587   | 0.0317 | 1.6489 | 33.8 |
| 7  | -2.095   | 0.0063 |        |      |
| 8  | 1.714    | 0.5524 | 1.5162 | 64.0 |
| 9  | -1.333   | 0.0317 | 1.6489 | 33.8 |
| 10 | -2.869   |        |        |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|----------|------------|-------------|
|                | 0.00226      | 0.00005      | -0.00057     | 0.00099      | 0.00021      | 0.17   | 1.2%            |          |            |             |
| h 或 $\omega$ % | $L_p$        | $l_p$        | $LA'$        | OSC'         | $x_1'$       | $x_2'$ | $x_1' - x_2'$   | $K_{T1}$ | $K_{T0.7}$ | $\Delta H'$ |
| 100            | -0.48        | 34.6         | 0.028        | 0.0009       | -0.009       | 0.005  | -0.014          | 0.0003   | 0.0001     | 0.0021      |
| 70             |              |              | 0.014        | 0.0004       | -0.004       | 0.002  | -0.006          | 0.0002   | 0.0001     | 0.0007      |





编号: 08-01-022

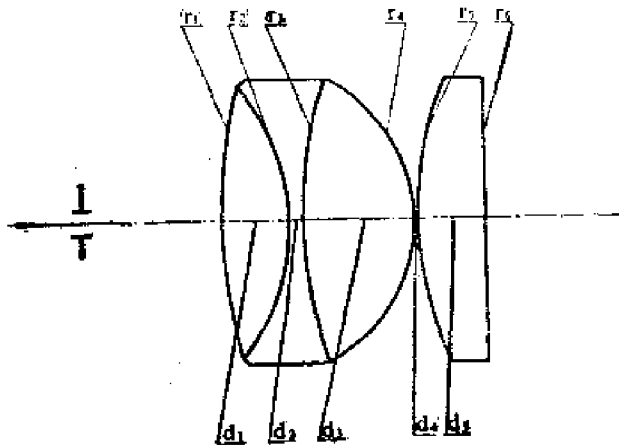
## 目 镜

E.F.L = 1 英寸

B.F.L = 0.739

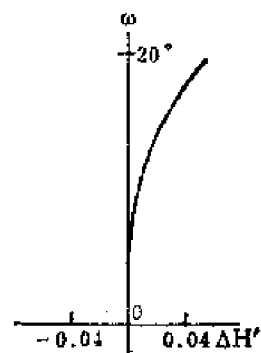
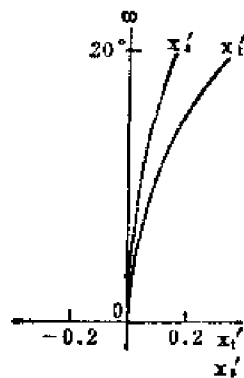
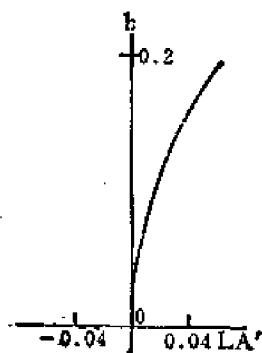
$\phi_{\text{出}}/2 = 0.2^{**}$

F.A. =  $\pm 20^{**}$



| 序号 | r        | d     | n      | v    |
|----|----------|-------|--------|------|
| 1  | 2.498    | 0.300 | 1.5163 | 64.0 |
| 2  | -1.000   | 0.065 | 1.6477 | 33.9 |
| 3  | 2.000    | 0.500 | 1.5163 | 64.0 |
| 4  | -0.715   | 0.015 |        |      |
| 5  | 1.625    | 0.300 | 1.5163 | 64.0 |
| 6  | $\infty$ |       |        |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | 0.0048       | 0.0063       | 0.0077       | 0.0039       | 0.0211       | 0.36   | 14.8%           |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l_p$        | LA'          | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$   | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -0.66        | 5.11         | 0.063        | 0.046        | 0.355        | 0.147  | 0.208           | 0.161     | 0.055       | 0.05        |
| 70             |              |              | 0.031        | 0.022        | 0.165        | 0.070  | 0.095           | 0.059     | 0.025       | 0.02        |



编号: 08-01-023

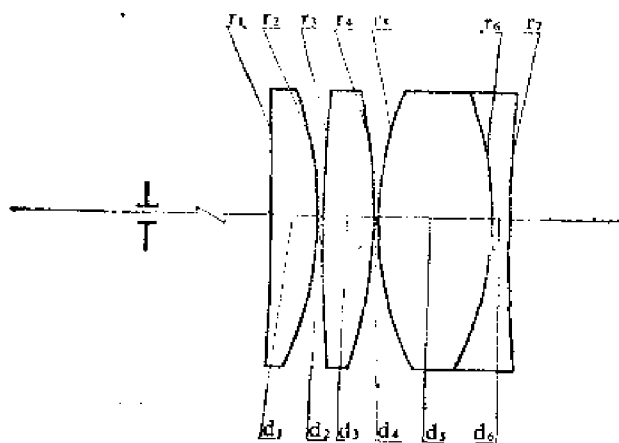
## 目 镜

E.F.L = 1 英寸

B.F.L = 0.550

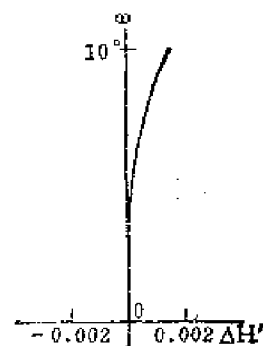
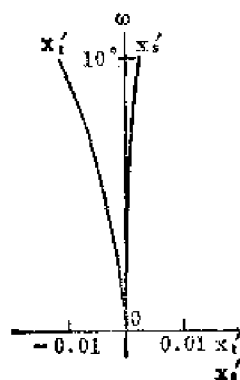
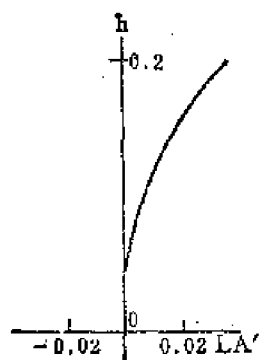
$\phi_{\text{目}}/2 = 0.2^{**}$

F.A. =  $\pm 10^{**}$



| 序号 | r       | d     | n      | v    |
|----|---------|-------|--------|------|
| 1  | -10.000 | 0.167 | 1.5163 | 64.0 |
| 2  | -1.120  | 0.014 |        |      |
| 3  | 4.370   | 0.167 | 1.5163 | 64.0 |
| 4  | -1.900  | 0.014 |        |      |
| 5  | 1.200   | 0.433 | 1.5163 | 64.0 |
| 6  | -1.200  | 0.067 | 1.7174 | 29.5 |
| 7  | 4.719   |       |        |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|                | 0.00250      | 0.00035      | -0.00039     | 0.00081      | 0.00045      | 0.17   | 0.9%          |           |             |             |
| h 或 $\omega$ % | $L_p$        | $L'_p$       | $LA'$        | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$ | $K'_{F1}$ | $K'_{F0.7}$ | $\Delta H'$ |
| 100            | -0.92        | -615         | 0.032        | 0.0043       | -0.012       | 0.002  | -0.014        | 0.0022    | 0.0010      | 0.0015      |
| 70             |              |              | 0.016        | 0.0019       | -0.006       | 0.001  | -0.007        | 0.0015    | 0.0007      | 0.0005      |



编号: 08-01-024

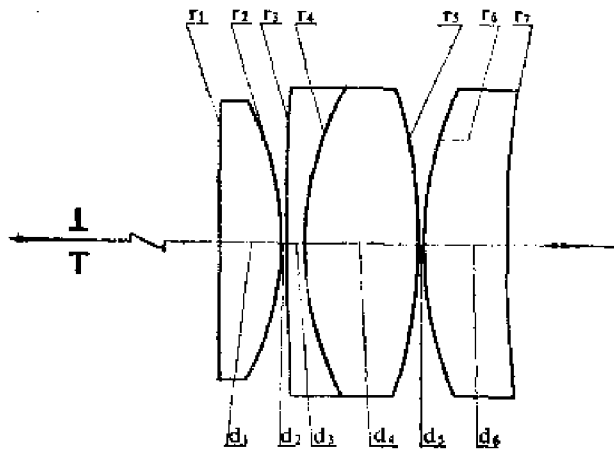
# 目 镜

E.F.L=1.1英寸

B.F.L=0.751

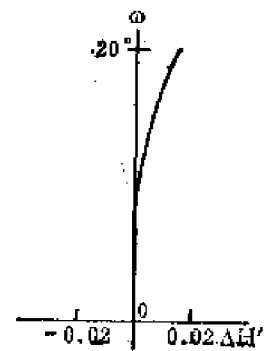
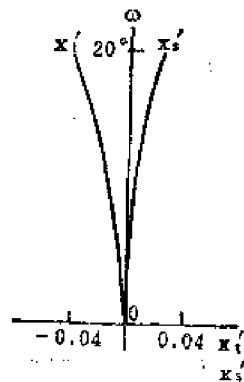
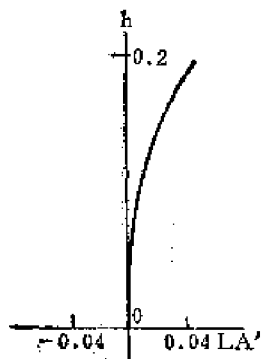
$\phi_{\text{出}}/2=0.2^{**}$

F.A. =  $\pm 20^{**}$



| 序号 | r        | d     | n      | v    |
|----|----------|-------|--------|------|
| 1  | $\infty$ | 0.230 | 1.5163 | 64.0 |
| 2  | -1.010   | 0.006 |        |      |
| 3  | 14.493   | 0.067 | 1.7174 | 29.5 |
| 4  | 1.140    | 0.400 | 1.5163 | 64.0 |
| 5  | -1.850   | 0.006 |        |      |
| 6  | 1.400    | 0.300 | 1.5163 | 64.0 |
| 7  | 7.402    |       |        |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|                | 0.0028       | 0.0007       | -0.0020      | 0.0036       | 0.0016       | 0.40   | 4%            |           |             |             |
| h 或 $\omega$ % | $L_p$        | $I_p$        | LA'          | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$ | $K'_{f1}$ | $K'_{f0.7}$ | $\Delta H'$ |
| 100            | -0.67        | -11.0        | 0.044        | 0.003        | -0.041       | 0.021  | -0.062        | 0.0065    | 0.0031      | 0.016       |
| 70             |              |              | 0.022        | 0.002        | -0.019       | 0.011  | -0.030        | 0.0045    | 0.0021      | 0.005       |



编号: 08-01-025

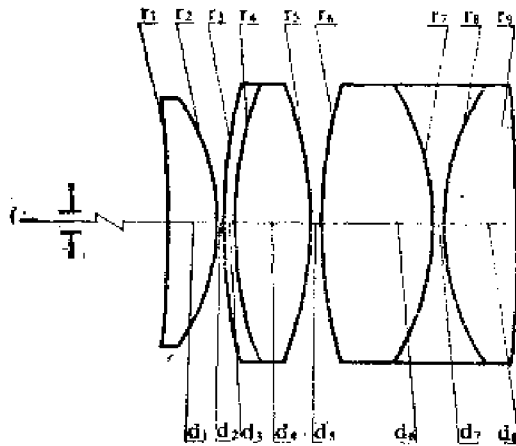
# 目 镜

E.F.L = 1 英寸

B.F.I = 0.23

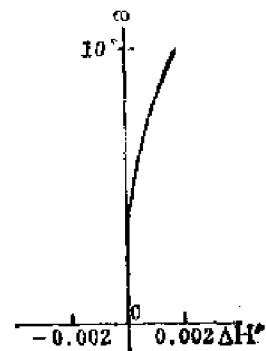
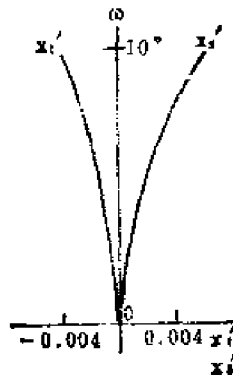
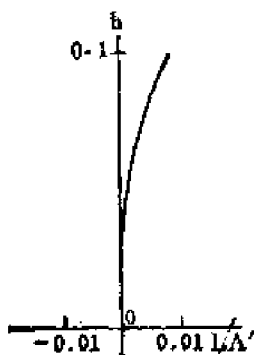
$\phi_{\text{目}}/2 = 0.1^{**}$

F.A. =  $\pm 10^{**}$



| 序号 | r      | d     | n      | v    |
|----|--------|-------|--------|------|
| 1  | -4.599 | 0.222 | 1.5163 | 54.0 |
| 2  | -0.930 | 0.006 |        |      |
| 3  | 3.261  | 0.063 | 1.7174 | 29.5 |
| 4  | 1.740  | 0.363 | 1.5163 | 64.0 |
| 5  | -2.060 | 0.006 |        |      |
| 6  | 1.510  | 0.520 | 1.5163 | 64.0 |
| 7  | -1.215 | 0.063 | 1.6477 | 33.9 |
| 8  | 1.215  | 0.219 | 1.5163 | 64.0 |
| 9  | -3.669 |       |        |      |

|         |              |        |              |        |              |        |               |          |              |             |      |         |
|---------|--------------|--------|--------------|--------|--------------|--------|---------------|----------|--------------|-------------|------|---------|
|         | $\Sigma S_1$ |        | $\Sigma S_2$ |        | $\Sigma S_3$ |        | $\Sigma S_4$  |          | $\Sigma S_5$ |             | HJ   | QP(100) |
|         | 0.00019      |        | 0.00007      |        | -0.00011     |        | 0.00024       |          | 0.00038      |             | 0.17 | 1%      |
| h 或 ω % | $L_p$        | $l_p'$ | $LA'$        | $OSC'$ | $x_i'$       | $x_s'$ | $x_i' - x_s'$ | $K_{f1}$ | $K_{f1.7}$   | $\Delta H'$ |      |         |
| 100     | -0.69        | 152.1  | 0.009        | 0.002  | -0.004       | 0.006  | -0.010        | 0.0010   | 0.0005       | 0.0018      |      |         |
| 70      |              |        | 0.005        | 0.001  | -0.002       | 0.003  | -0.005        | 0.0007   | 0.0003       | 0.0006      |      |         |



编号: 08-01-026

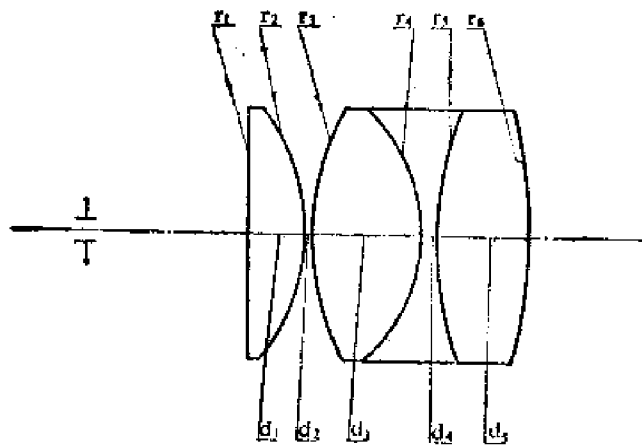
# 目 镜

E.F.L = 1 英寸

B.F.L = 0.273

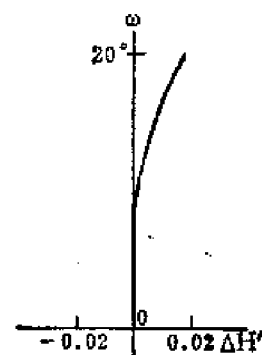
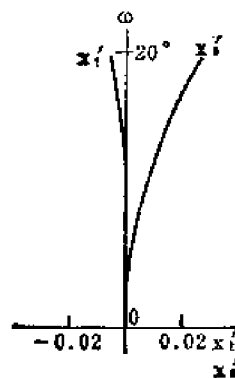
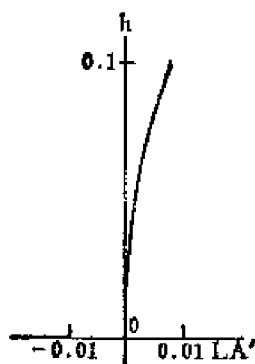
$\phi_{H1}/2 = 0.1^{**}$

F.A. =  $\pm 20^{**}$



| 序号 | r        | d     | n      | v    |
|----|----------|-------|--------|------|
| 1  | $\infty$ | 0.285 | 1.7015 | 41.1 |
| 2  | -1.039   | 0.008 |        |      |
| 3  | 1.280    | 0.570 | 1.5687 | 63.1 |
| 4  | -0.876   | 0.082 | 1.7283 | 28.3 |
| 5  | 1.930    | 0.450 | 1.5687 | 63.1 |
| 6  | -3.149   |       |        |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|----------|------------|-------------|
|                | 0.00016      | 0.00014      | -0.00028     | 0.00092      | 0.00108      | 0.36   | 4.9%            |          |            |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | LA'          | OSC'         | $x_1'$       | $x_2'$ | $x_1' - x_2'$   | $K_{f1}$ | $K_{f0.7}$ | $\Delta H'$ |
| 100            | -0.82        | 45.4         | 0.008        | 0.0020       | -0.008       | 0.027  | -0.035          | 0.0017   | 0.0008     | 0.018       |
| 70             |              |              | 0.004        | 0.0009       | -0.001       | 0.014  | -0.015          | 0.0014   | 0.0007     | 0.006       |



编号: 08-01-027

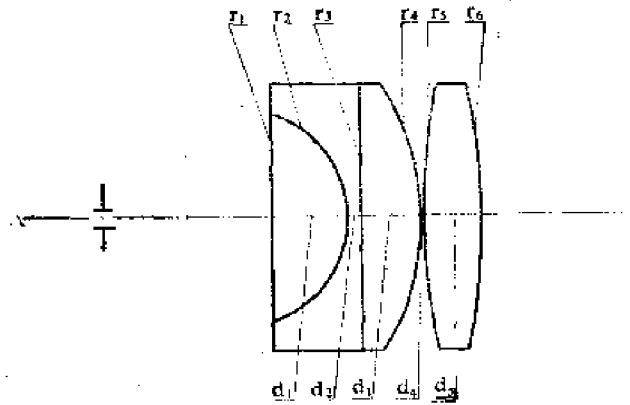
# 目 镜

E.F.L = 1 英寸

B.F.L = 0.949

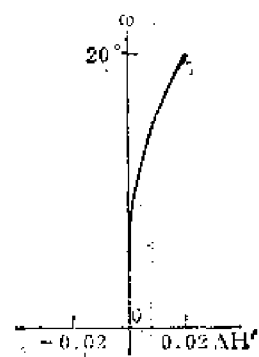
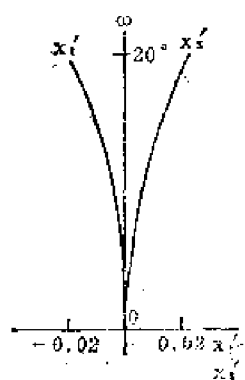
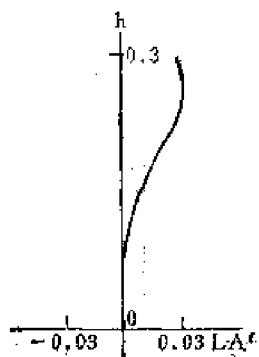
$\phi_{\text{出}}/2 = 0.3^{**}$

F.A. =  $\pm 20^{**}$



| 序号 | r        | d     | n      | v    |
|----|----------|-------|--------|------|
| 1  | $\infty$ | 0.265 | 1.6053 | 43.6 |
| 2  | -0.415   | 0.052 | 1.7200 | 29.3 |
| 3  | $\infty$ | 0.208 | 1.6170 | 55.0 |
| 4  | -0.916   | 0.002 |        |      |
| 5  | 2.144    | 0.208 | 1.6170 | 55.0 |
| 6  | -2.144   |       |        |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | Hl     |               | QP(1 $\omega$ ) |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------------|------------|-------------|
|                | 0.0112       | 0.0015       | -0.0031      | 0.0080       | 0.0049       | 0.36   |               | 3.3%            |            |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | $LA'$        | OSC'         | $x_1'$       | $x_2'$ | $x_1' - x_2'$ | $K_{T1}$        | $K_{T0.7}$ | $\Delta H'$ |
| 100            | -0.604       | 1484         | 0.030        | -0.011       | -0.02        | 0.023  | -0.043        | 0.169           | -0.045     | 0.019       |
| 70             |              |              | 0.026        | 0.0004       | -0.006       | 0.012  | -0.018        | 0.117           | -0.010     | 0.007       |



编号: 08-01-028

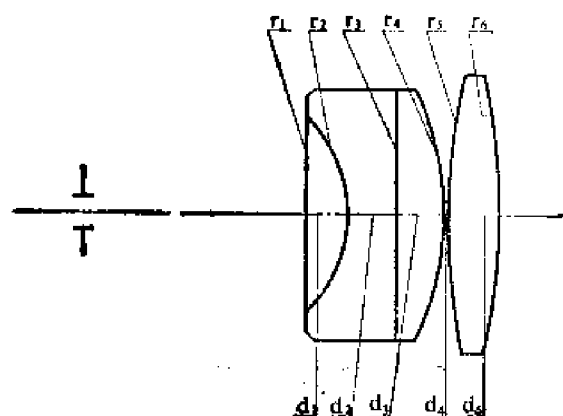
## 目 镜

E.F.L = 1 英寸

B.F.L = 0.982

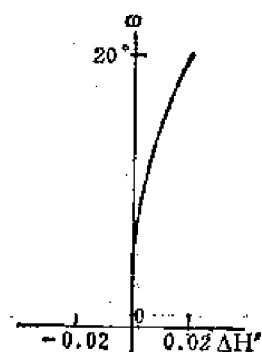
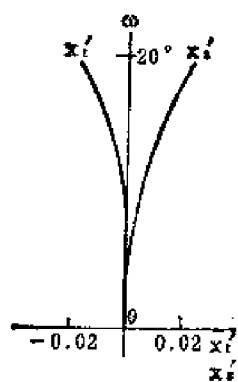
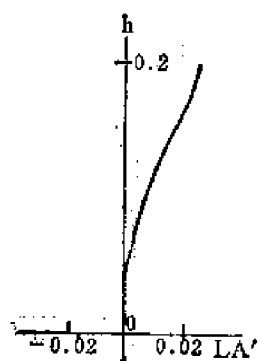
$\phi_{\text{出}}/2 = 0.2^{\circ}$

F.A. =  $\pm 20^{\circ}$



| 序号 | r        | d     | n      | v    |
|----|----------|-------|--------|------|
| 1  | $\infty$ | 0.115 | 1.6053 | 43.6 |
| 2  | -0.421   | 0.134 | 1.7200 | 29.3 |
| 3  | $\infty$ | 0.134 | 1.6170 | 55.0 |
| 4  | -0.929   | 0.002 |        |      |
| 5  | 2.158    | 0.138 | 1.6170 | 55.0 |
| 6  | -2.158   |       |        |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | 0.0023       | 0.0005       | -0.0013      | 0.0035       | 0.0031       | 0.36   | 5.3%            |           |             |             |
| h 或 $\omega$ % | $L_p$        | $P'$         | LA'          | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$   | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -0.708       | -4183        | 0.025        | 0.001        | -0.017       | 0.023  | -0.040          | -0.028    | -0.005      | 0.019       |
| 70             |              |              | 0.014        | 0.001        | -0.005       | 0.012  | -0.017          | -0.006    | -0.001      | 0.007       |



编号: 08-01-029

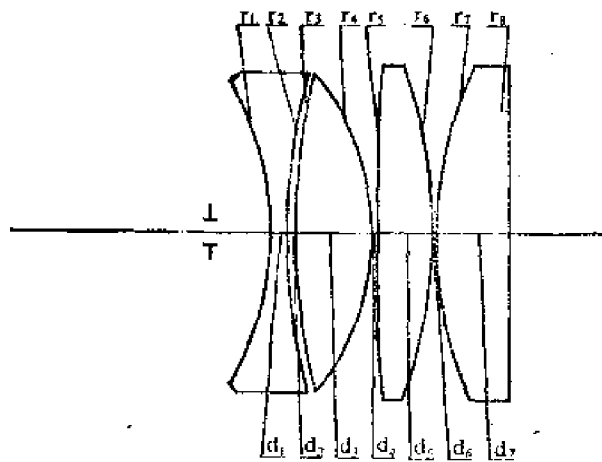
# 目 镜

E.F.L = 1 英寸

B.F.L = 0.962

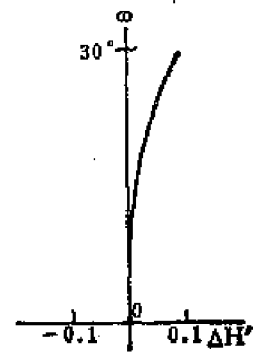
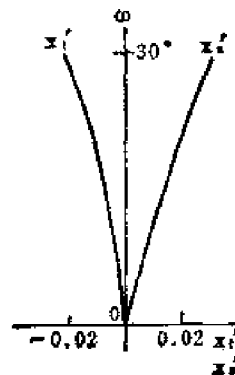
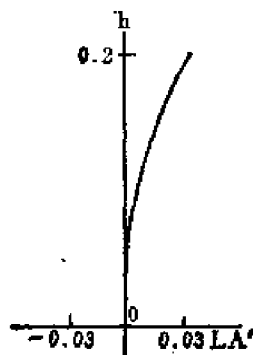
$\phi_H/2 = 0.2^{**}$

F.A. =  $\pm 30^{**}$



| 序号 | r        | d      | n     | v    |
|----|----------|--------|-------|------|
| 1  | -1.115   | 0.0540 | 1.700 | 30.2 |
| 2  | 2.380    | 0.0079 |       |      |
| 3  | 2.568    | 0.2779 | 1.620 | 60.2 |
| 4  | -0.944   | 0.0079 |       |      |
| 5  | 5.977    | 0.2084 | 1.620 | 60.2 |
| 6  | -1.821   | 0.0079 |       |      |
| 7  | 1.611    | 0.2481 | 1.620 | 60.2 |
| 8  | $\infty$ |        |       |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | 0.0027       | -0.0027      | -0.0027      | 0.0069       | 0.0385       | 0.57   | 13%             |           |             |             |
| h 或 $\omega$ % | $L_p$        | $L'_p$       | LA'          | OSC'         | $x'_i$       | $x'_s$ | $x'_i - x'_s$   | $K'_{f1}$ | $K'_{f0.7}$ | $\Delta H'$ |
| 100            | -0.2         | -1.5         | 0.034        | -0.012       | -0.02        | 0.03   | -0.05           | -0.016    | -0.007      | 0.08        |
| 70             |              |              | 0.017        | -0.006       | -0.01        | 0.02   | -0.03           | -0.013    | -0.006      | 0.03        |





编号: 08-01-030

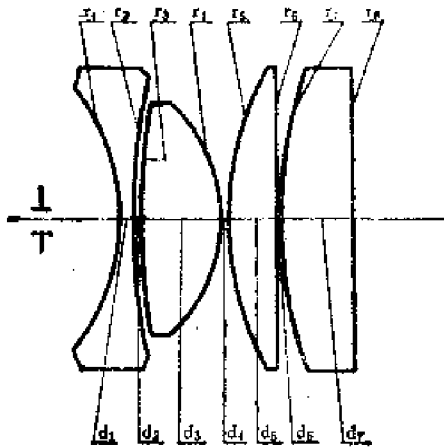
## 目 镜

E.F.L = 1 英寸

B.F.L = 0.885

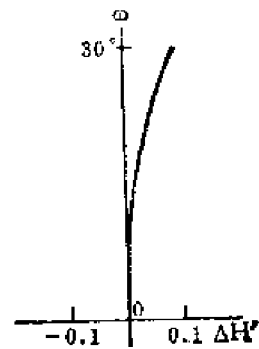
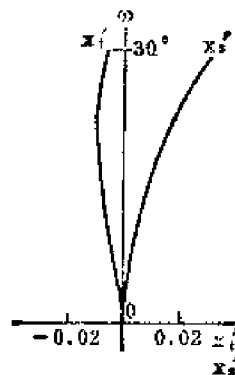
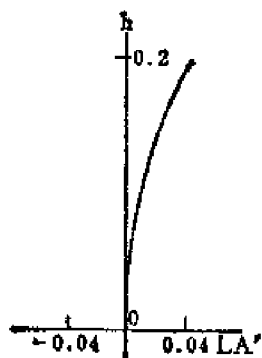
$\phi_{H/2} = 0.1^{**}$

F.A. =  $\pm 30^{**}$



| 序号 | r        | d     | n     | v    |
|----|----------|-------|-------|------|
| 1  | -1.069   | 0.055 | 1.700 | 30.2 |
| 2  | 3.424    | 0.018 |       |      |
| 3  | 5.000    | 0.380 | 1.620 | 60.2 |
| 4  | -0.806   | 0.005 |       |      |
| 5  | 1.538    | 0.250 | 1.620 | 60.2 |
| 6  | $\infty$ | 0.005 |       |      |
| 7  | 2.150    | 0.350 | 1.620 | 60.2 |
| 8  | $\infty$ |       |       |      |

|                |              |              |              |              |              |        |               |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|----------|------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(10)        |          |            |             |
|                | 0.00327      | -0.00007     | -0.00296     | 0.00628      | 0.04000      | 0.57   | 14%           |          |            |             |
| h 或 $\omega$ % | $L_p$        | $j\beta$     | $LA'$        | $OSC'$       | $x'_1$       | $x'_2$ | $x'_1 - x'_2$ | $K_{f1}$ | $K_{f0.7}$ | $\Delta H'$ |
| 100            | -0.35        | -4.1         | 0.042        | -0.0005      | -0.006       | 0.029  | -0.035        | 0.00016  | 0.00029    | 0.08        |
| 70             |              |              | 0.021        | -0.0002      | -0.010       | 0.015  | -0.025        | -0.0012  | -0.0002    | 0.03        |



编号: 08-01-031

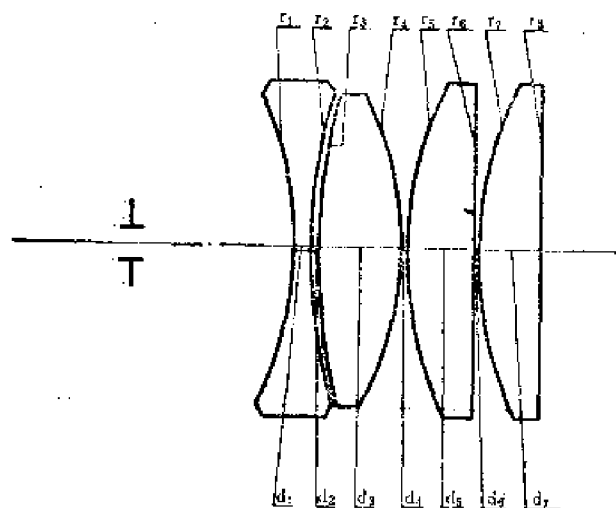
# 目 镜

E.F.L = 1 英寸

B.F.L = 0.916

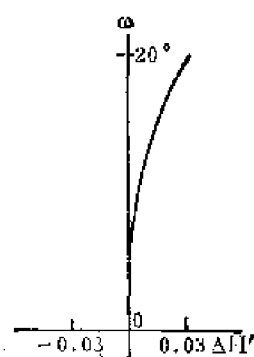
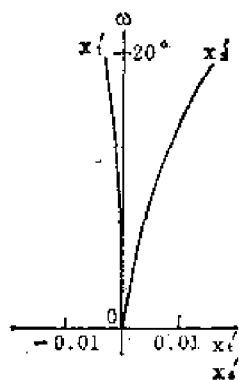
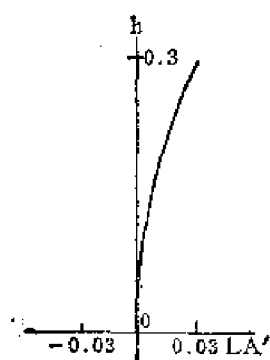
$\phi_m/2 = 0.8^{**}$

F.A. =  $\pm 20^{**}$



| 序号 | r        | d     | n     | v    |
|----|----------|-------|-------|------|
| 1  | -1.139   | 0.058 | 1.801 | 25.2 |
| 2  | 2.247    | 0.010 |       |      |
| 3  | 3.123    | 0.392 | 1.719 | 54.5 |
| 4  | -1.149   | 0.010 |       |      |
| 5  | 1.428    | 0.230 | 1.620 | 60.3 |
| 6  | $\infty$ | 0.010 |       |      |
| 7  | 1.522    | 0.230 | 1.620 | 60.3 |
| 8  | $\infty$ |       |       |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI          | QP(1 $\omega$ )        |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|-------------|------------------------|----------|------------|-------------|
|                | 0.0061       | -0.0023      | -0.0025      | 0.0062       | 0.0196       | 0.36        | 8.3%                   |          |            |             |
| h 或 $\omega$ % | $L_p$        | $L'_p$       | $LA'$        | OSC'         | $\kappa_i$   | $\kappa'_s$ | $\kappa_i - \kappa'_s$ | $K_{T1}$ | $K_{T0.7}$ | $\Delta H'$ |
| 100            | -0.6         | -37.1        | 0.032        | -0.013       | -0.003       | 0.017       | -0.020                 | 0.165    | -0.008     | 0.030       |
| 70             |              |              | 0.016        | -0.006       | -0.002       | 0.009       | -0.011                 | -0.012   | -0.004     | 0.010       |



编号: 08-01-032

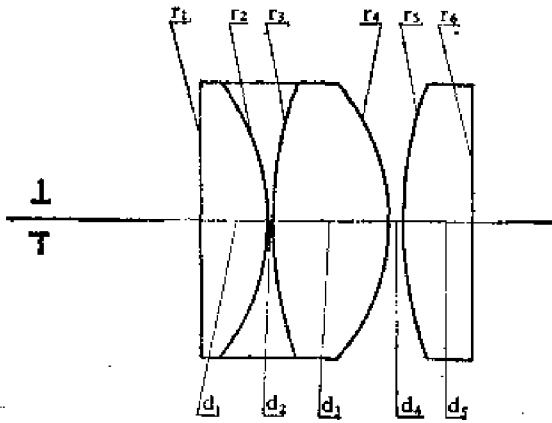
# 目 镜

E.F.L = 1 英寸

B.F.L = 0.75

$\phi_{出}/2 = 0.2^{**}$

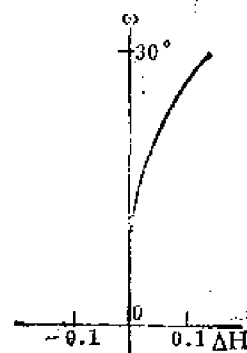
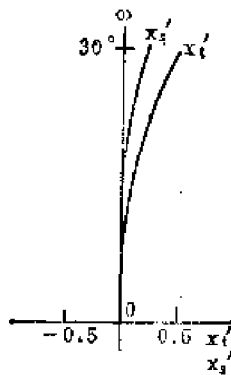
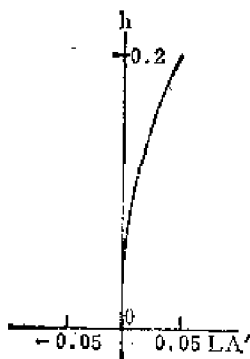
F.A. =  $\pm 30^{**}$



| 序号 | r        | d     | n      | v    |
|----|----------|-------|--------|------|
| 1  | $\infty$ | 0.304 | 1.6910 | 54.8 |
| 2  | -1.013   | 0.015 | 1.6477 | 33.8 |
| 3  | 2.029    | 0.507 | 1.6510 | 58.6 |
| 4  | -0.986†  | 0.066 |        |      |
| 5  | 1.788    | 0.304 | 1.5602 | 60.9 |
| 6  | $\infty$ |       |        |      |

† 可以是抛物面曲线, 此处按球面计算。

|                |              |              |              |              |              |        |               |                 |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     |               | QP(1 $\omega$ ) |             |             |
|                | 0.0038       | 0.0065       | 0.0087       | 0.0082       | 0.0322       | 0.58   |               | 22%             |             |             |
| h 或 $\omega$ % | $I_p$        | $I_p'$       | LA'          | OSC'         | $x_1'$       | $x_2'$ | $x_1' - x_2'$ | $K_{T1}'$       | $K_{T0.7}'$ | $\Delta H'$ |
| 100            | -0.75        | 4.8          | 0.050        | 0.029        | 0.528        | 0.222  | 0.306         | 0.164           | 0.062       | 0.13        |
| 70             |              |              | 0.024        | 0.014        | 0.215        | 0.098  | 0.117         | 0.054           | 0.024       | 0.04        |



编号: 08-01-033

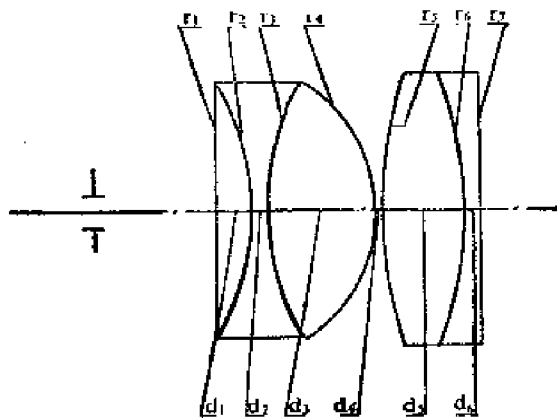
## 目 镜

E.F.L = 1 英寸

B.F.L = 0.621

$\phi_{\text{目}}/2 = 0.2^{\circ}$  \*\*

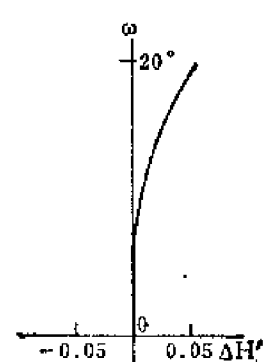
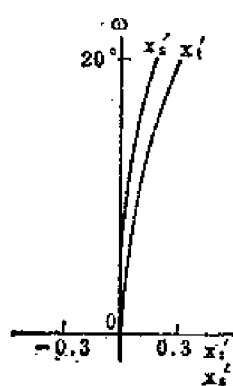
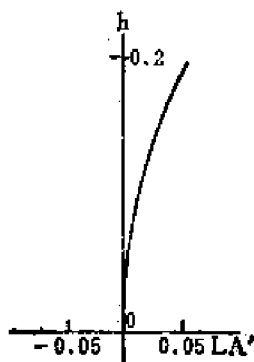
F.A. =  $\pm 20^{\circ}$  \*\*



| 序号 | r        | d     | n     | v    |
|----|----------|-------|-------|------|
| 1  | $\infty$ | 0.213 | 1.627 | 54.5 |
| 2  | -1.581   | 0.091 | 1.627 | 35.4 |
| 3  | 1.581    | 0.669 | 1.651 | 58.6 |
| 4  | -0.902†  | 0.006 |       |      |
| 5  | 2.406    | 0.517 | 1.651 | 58.6 |
| 6  | -2.406   | 0.091 | 1.651 | 53.7 |
| 7  | $\infty$ |       |       |      |

† 可以是抛物面曲线, 在此按球面计算。

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HJ     | QP(1 $\omega$ ) |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|----------|------------|-------------|
|                | 0.0044       | 0.0062       | 0.0079       | 0.0032       | 0.0156       | 0.36   | 15%             |          |            |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | $LA'$        | $OSC'$       | $x_i'$       | $x_o'$ | $x_i' - x_o'$   | $K_{f1}$ | $K_{f0.7}$ | $\Delta H'$ |
| 100            | -0.75        | 3.55         | 0.057        | 0.045        | 0.355        | 0.143  | 0.212           | 0.110    | 0.045      | 0.05        |
| 70             |              |              | 0.028        | 0.022        | 0.165        | 0.067  | 0.098           | 0.050    | 0.022      | 0.02        |



编号: 08-01-034

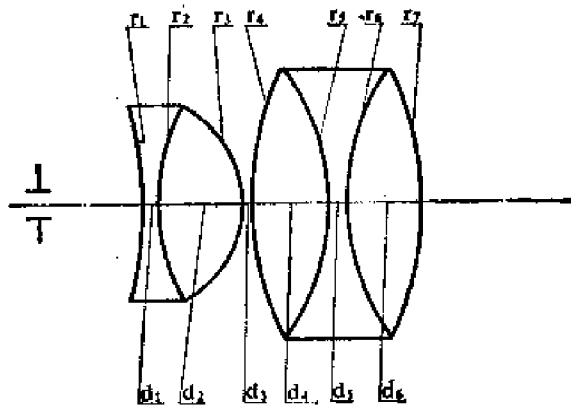
## 目 镜

E.F.L = 1 英寸

B.F.L = 0.351

$\phi_{出}/2 = 0.2^{**}$

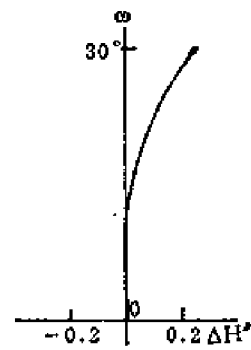
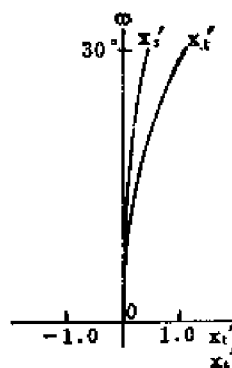
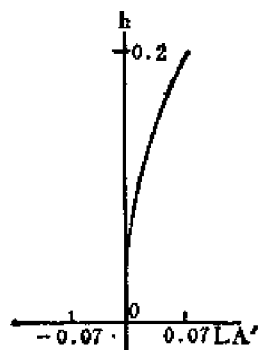
F.A. =  $\pm 30^{**}$



| 序号 | r       | d     | n      | v    |
|----|---------|-------|--------|------|
| 1  | -3.498  | 0.113 | 1.5684 | 42.6 |
| 2  | 1.624   | 0.622 | 1.6404 | 57.6 |
| 3  | -0.804† | 0.006 |        |      |
| 4  | 2.077   | 0.538 | 1.5883 | 60.2 |
| 5  | -1.726  | 0.112 | 1.7275 | 28.5 |
| 6  | 1.726   | 0.509 | 1.5883 | 60.2 |
| 7  | -2.382  |       |        |      |

† 可以是抛物面曲线, 在此按球面计算。

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | $QP(100)$     |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|----------|------------|-------------|
|                | 0.0056       | 0.0119       | 0.0220       | 0.0089       | 0.0844       | 0.57   | 41%           |          |            |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | $LA'$        | OSC'         | $x_t'$       | $x_a'$ | $x_t' - x_a'$ | $K_{F1}$ | $K_{F0.7}$ | $\Delta H'$ |
| 100            | -0.75        | 3.22         | 0.073        | 0.054        | 1.004        | 0.415  | 0.589         | -1.149   | -1.156     | 0.23        |
| 70             |              |              | 0.036        | 0.026        | 0.436        | 0.177  | 0.259         | 0.162    | 0.060      | 0.06        |



编号: 08-01-035

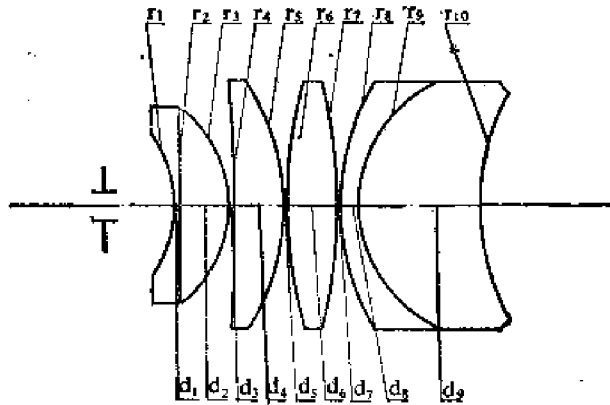
# 目 镜

E.F.L = 1 英寸

B.F.L = 0.290

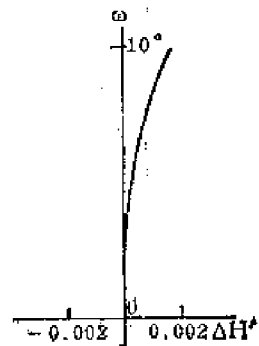
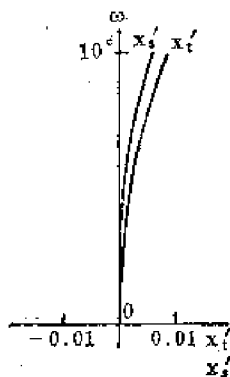
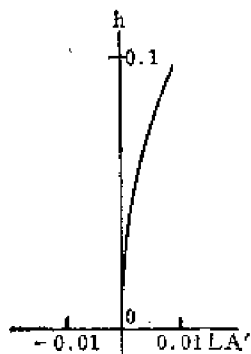
$\phi_{出}/2 = 0.1^{**}$

F.A. =  $\pm 10^{**}$



| 序号 | r        | d     | n      | v    |
|----|----------|-------|--------|------|
| 1  | -1.015   | 0.043 | 1.6089 | 30.1 |
| 2  | $\infty$ | 0.357 | 1.6138 | 56.3 |
| 3  | -0.914   | 0.006 |        |      |
| 4  | -21.881  | 0.314 | 1.6138 | 56.3 |
| 5  | -1.740   | 0.006 |        |      |
| 6  | 3.730    | 0.343 | 1.6138 | 56.3 |
| 7  | -4.490   | 0.006 |        |      |
| 8  | 1.800    | 0.143 | 1.6433 | 47.8 |
| 9  | 0.980    | 0.886 | 1.5750 | 41.3 |
| 10 | 1.707    |       |        |      |

|                |              |              |              |              |              |        |                 |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|                | 0.00019      | 0.00017      | 0.00002      | 0.00011      | 0.00037      | 0.17   | 1%              |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l_p$        | $LA'$        | OSC'         | $x'_t$       | $x'_s$ | $x'_t - x'_s$   | $K'_{f1}$ | $K'_{f0.7}$ | $\Delta H'$ |
| 100            | -0.85        | 3.68         | 0.009        | 0.004        | 0.009        | 0.007  | 0.002           | 0.0025    | 0.0012      | 0.0018      |
| 70             |              |              | 0.004        | 0.002        | 0.004        | 0.003  | 0.001           | 0.0017    | 0.0008      | 0.0006      |



编号: 08-01-036

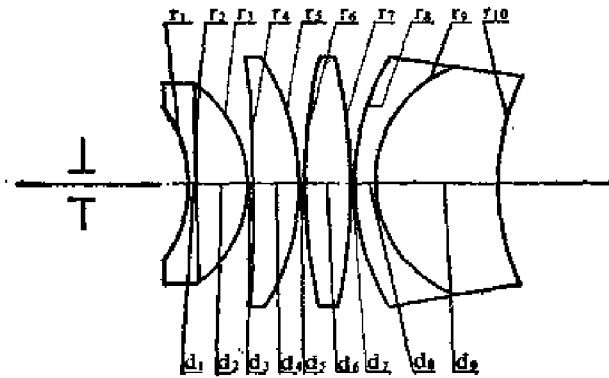
# 目 镜

E.F.L = 1 英寸

B.F.L = 0.294

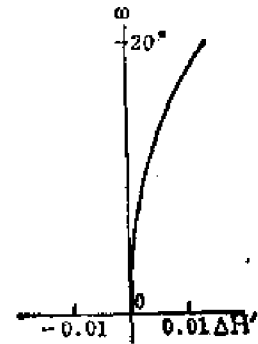
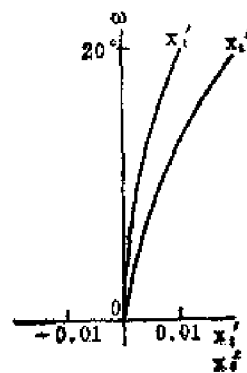
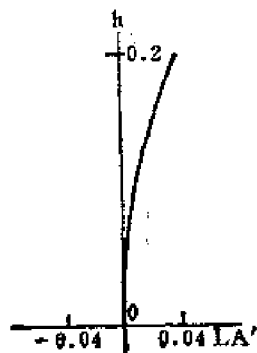
$\phi_H/2 = 0.2^{**}$

F.A. =  $\pm 20^{**}$



| 序号 | r        | d     | n      | v    |
|----|----------|-------|--------|------|
| 1  | -1.015   | 0.043 | 1.6989 | 30.1 |
| 2  | $\infty$ | 0.357 | 1.6138 | 56.3 |
| 3  | -0.914   | 0.006 |        |      |
| 4  | -21.881  | 0.341 | 1.6138 | 56.3 |
| 5  | -1.740   | 0.006 |        |      |
| 6  | 3.730    | 0.343 | 1.6138 | 56.3 |
| 7  | -4.490   | 0.006 |        |      |
| 8  | 1.800    | 0.143 | 1.6433 | 47.8 |
| 9  | 0.886    | 0.886 | 1.5750 | 41.3 |
| 10 | 1.820    |       |        |      |

|                |              |              |              |              |              |        |               |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|----------|------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |          |            |             |
|                | 0.0030       | 0.0023       | -0.0004      | 0.0020       | 0.0061       | 0.36   | 3.8%          |          |            |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | $LA'$        | OSC'         | $x_1'$       | $x_2'$ | $x_1' - x_2'$ | $K_{T1}$ | $K_{T0.7}$ | $\Delta H'$ |
| 100            | -0.76        | 8.9          | 0.038        | 0.016        | 0.010        | -0.019 | -0.009        | 0.0159   | 0.0078     | 0.014       |
| 70             |              |              | 0.019        | 0.008        | 0.005        | -0.009 | -0.004        | 0.0119   | 0.0058     | 0.005       |



编号: 08-01-037

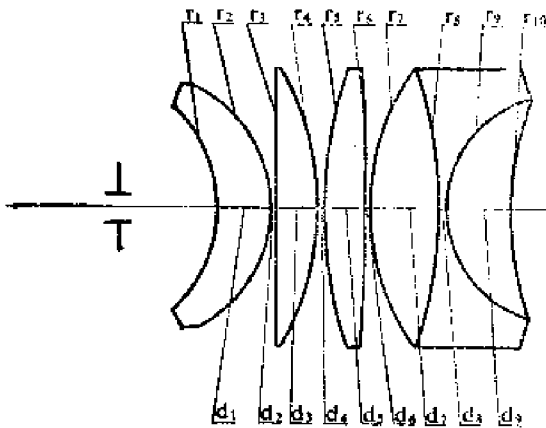
## 目 镜

E.F.L = 1 英寸

B.F.L = 0.289

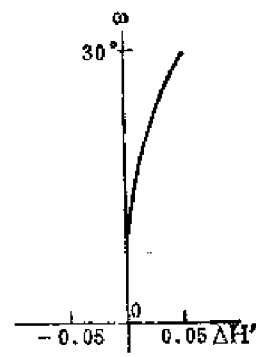
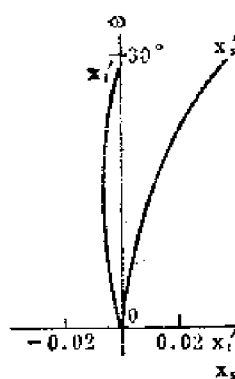
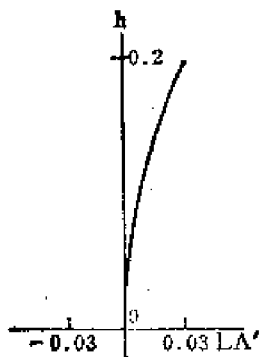
$\phi_{\omega}/2 = 0.2^{**}$

F.A. =  $\pm 30^{**}$



| 序号 | r        | d     | n      | v    |
|----|----------|-------|--------|------|
| 1  | -1.046   | 0.423 | 1.6073 | 59.5 |
| 2  | -0.987   | 0.006 |        |      |
| 3  | $\infty$ | 0.303 | 1.6073 | 59.5 |
| 4  | -1.908   | 0.008 |        |      |
| 5  | 3.295    | 0.316 | 1.6073 | 59.5 |
| 6  | -5.503   | 0.009 |        |      |
| 7  | 1.767    | 0.521 | 1.6073 | 59.5 |
| 8  | -3.072   | 0.034 | 1.6889 | 31.1 |
| 9  | 0.803    | 0.451 | 1.6200 | 36.6 |
| 10 | 2.410    |       |        |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|----------|------------|-------------|
|                | 0.0025       | 0.0028       | -0.0023      | 0.0055       | 0.0241       | 0.57   | 8.6%            |          |            |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | LA'          | OSC'         | $x_1'$       | $x_2'$ | $x_1' - x_2'$   | $K_{T1}$ | $K_{T0.7}$ | $\Delta H'$ |
| 100            | -0.76        | 9.8          | 0.032        | 0.013        | 0            | 0.038  | -0.038          | 0.017    | 0.0087     | 0.050       |
| 70             |              |              | 0.016        | 0.006        | -0.005       | 0.017  | -0.022          | 0.013    | 0.0065     | 0.016       |





编号: 08-01-038

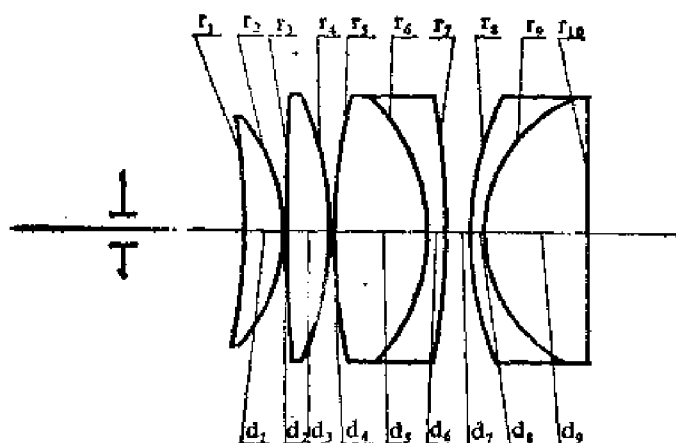
## 目 镜

E.F.L = 1 英寸

B.F.L = 0

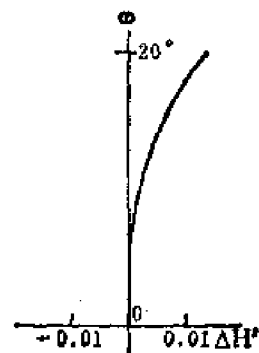
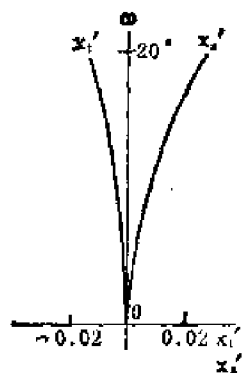
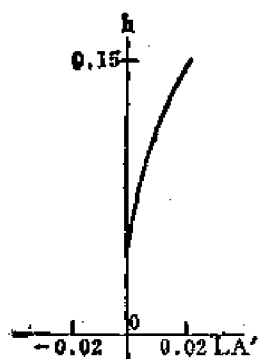
$\phi_H/2 = 0.15^{**}$

F.A. =  $\pm 20^{**}$



| 序号 | r        | d     | n      | v    |
|----|----------|-------|--------|------|
| 1  | -3.769   | 0.225 | 1.5596 | 61.2 |
| 2  | -1.030   | 0.008 |        |      |
| 3  | 13.055   | 0.240 | 1.5596 | 61.2 |
| 4  | -1.970   | 0.008 |        |      |
| 5  | 3.250    | 0.550 | 1.5596 | 61.2 |
| 6  | -1.330   | 0.092 | 1.6889 | 31.1 |
| 7  | -5.060   | 0.150 |        |      |
| 8  | 2.130    | 0.079 | 1.6471 | 33.9 |
| 9  | 0.862    | 0.630 | 1.5673 | 42.8 |
| 10 | $\infty$ |       |        |      |

|                |              |              |              |              |              |         |                 |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|---------|-----------------|----------|------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI      | QP(1 $\omega$ ) |          |            |             |
|                | 0.00086      | 0.00052      | -0.00106     | 0.00229      | 0.00434      | 0.36    | 3.6%            |          |            |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | $LA'$        | $OSC'$       | $x_i'$       | $x_i''$ | $x_i' - x_i''$  | $K_{f1}$ | $K_{f0.7}$ | $\Delta H'$ |
| 100            | -0.70        | 9.9          | 0.019        | 0.005        | -0.016       | 0.026   | -0.042          | 0.0050   | 0.0025     | 0.013       |
| 70             |              |              | 0.009        | 0.002        | -0.008       | 0.013   | -0.021          | 0.0036   | 0.0017     | 0.004       |



编号: 08-01-039

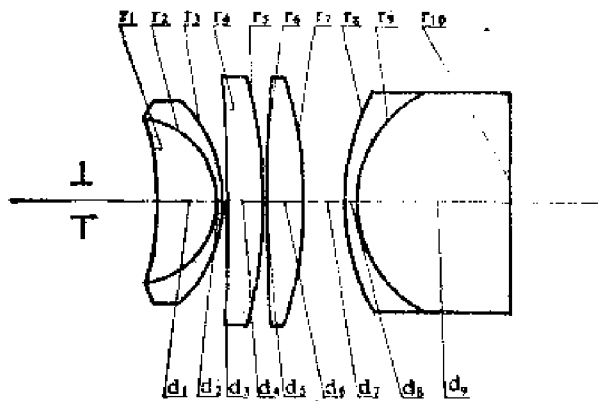
## 目 镜

E.F.L = 1 英寸

B.F.L = 0

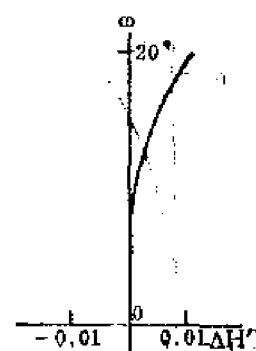
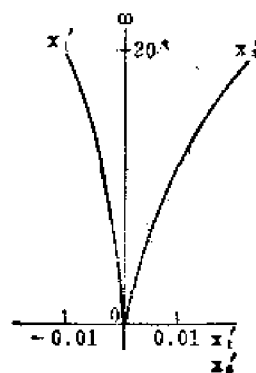
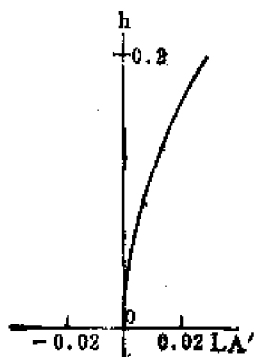
$\phi_{\omega}/2 = 0.2^{\circ}$  \*\*

F.A. =  $\pm 20^{\circ}$  \*\*



| 序号 | r        | d     | n      | v    |
|----|----------|-------|--------|------|
| 1  | -1.865   | 0.403 | 1.6031 | 60.7 |
| 2  | -0.612   | 0.036 | 1.7484 | 27.8 |
| 3  | -1.044   | 0.010 |        |      |
| 4  | -5.365   | 0.238 | 1.6506 | 58.5 |
| 5  | -1.661   | 0.010 |        |      |
| 6  | 13.298   | 0.259 | 1.6506 | 58.5 |
| 7  | -2.994   | 0.295 |        |      |
| 8  | 1.552    | 0.078 | 1.6478 | 33.8 |
| 9  | 0.876    | 1.105 | 1.5477 | 63.5 |
| 10 | $\infty$ |       |        |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|----------|------------|-------------|
|                | 0.0023       | 0.0017       | -0.0015      | 0.0035       | 0.0046       | 0.36   | 2.9%            |          |            |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | LA'          | OSC'         | $x_t'$       | $x_s'$ | $x_t' - x_s'$   | $K_{T1}$ | $K_{T0.7}$ | $\Delta H'$ |
| 100            | -0.75        | 2.7          | 0.028        | 0.011        | -0.010       | 0.024  | -0.035          | 0.0091   | 0.0048     | 0.010       |
| 70             |              |              | 0.014        | 0.005        | -0.005       | 0.012  | -0.017          | 0.0074   | 0.0038     | 0.003       |



编号: 08-01-040

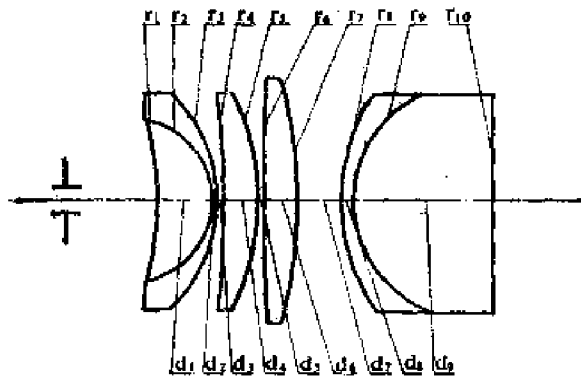
## 目 镜

E.F.L = 1 英寸

B.F.L = 0

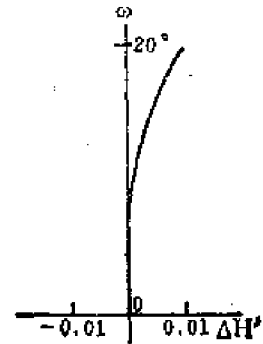
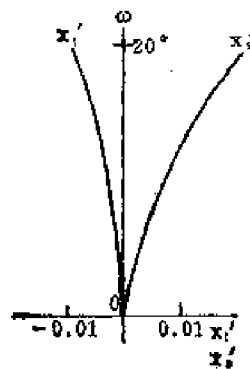
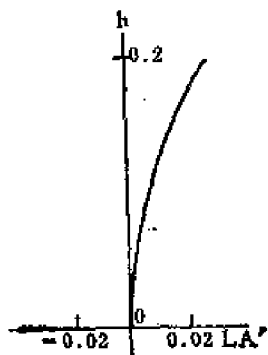
$\phi_{\omega}/2 = 0.2^{\circ}$

F.A. =  $\pm 20^{\circ}$



| 序号 | r        | d      | n      | v    |
|----|----------|--------|--------|------|
| 1  | -1.608   | 0.3780 | 1.5596 | 61.2 |
| 2  | -0.599   | 0.0350 | 1.7471 | 28.1 |
| 3  | -0.939   | 0.0100 |        |      |
| 4  | -5.794   | 0.2520 | 1.6506 | 58.5 |
| 5  | -1.644   | 0.0100 |        |      |
| 6  | 13.889   | 0.2570 | 1.6506 | 58.5 |
| 7  | -3.001   | 0.2930 |        |      |
| 8  | 1.466    | 0.0280 | 1.6478 | 33.8 |
| 9  | 0.871    | 1.0898 | 1.5231 | 63.5 |
| 10 | $\infty$ |        |        |      |

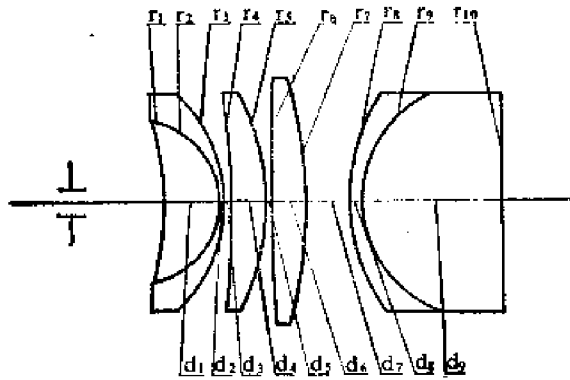
|                |              |              |              |              |              |        |                 |          |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | Hf     | QP(1 $\omega$ ) |          |             |             |
|                | 0.0024       | 0.0018       | -0.0015      | 0.0035       | 0.0015       | 0.36   | 2.8%            |          |             |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | $LA'$        | $OSC'$       | $x_1'$       | $x_2'$ | $x_1' - x_2'$   | $K_{T1}$ | $K_{T0.7}'$ | $\Delta H'$ |
| 100            | -0.75        | 2.8          | 0.029        | 0.012        | -0.010       | 0.024  | -0.035          | 0.0094   | 0.0050      | 0.010       |
| 70             |              |              | 0.015        | 0.006        | -0.005       | 0.012  | -0.017          | 0.0077   | 0.0040      | 0.003       |



编号: 08-01-041

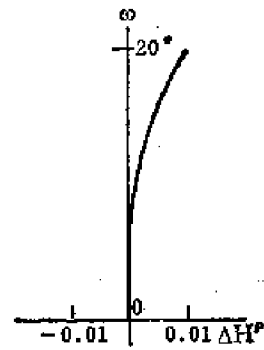
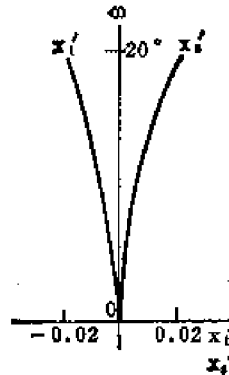
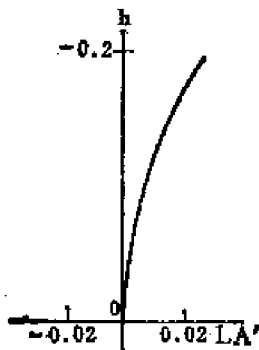
## 目 镜

E.F.L = 1 英寸    B.F.L = 0.003     $\phi_{H/2} = -0.2^{**}$     F.A. =  $\pm 20^{**}$



| 序号 | r        | d     | n      | v    |
|----|----------|-------|--------|------|
| 1  | -1.672   | 0.403 | 1.6506 | 58.5 |
| 2  | -0.587   | 0.035 | 1.7471 | 28.1 |
| 3  | -1.106   | 0.010 |        |      |
| 4  | -5.763   | 0.252 | 1.6506 | 58.5 |
| 5  | -1.641   | 0.010 |        |      |
| 6  | 13.869   | 0.257 | 1.6506 | 58.5 |
| 7  | -2.997   | 0.308 |        |      |
| 8  | 1.464    | 0.088 | 1.6478 | 33.8 |
| 9  | 0.870    | 1.087 | 1.5231 | 63.5 |
| 10 | $\infty$ |       |        |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|----------|------------|-------------|
|                | 0.0023       | -0.0015      | -0.0017      | 0.0034       | -0.0048      | 0.36   | 3%            |          |            |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | $LA'$        | $OSC'$       | $x_1'$       | $x_2'$ | $x_1' - x_2'$ | $K_{T1}$ | $K_{T0.7}$ | $\Delta H'$ |
| 100            | -0.7         | 3.2          | 0.028        | 0.010        | -0.019       | 0.010  | -0.039        | 0.0085   | 0.0045     | 0.011       |
| 70             |              |              | 0.014        | 0.005        | -0.01        | 0.01   | -0.02         | 0.0068   | 0.0035     | 0.003       |



编号: 08-01-042

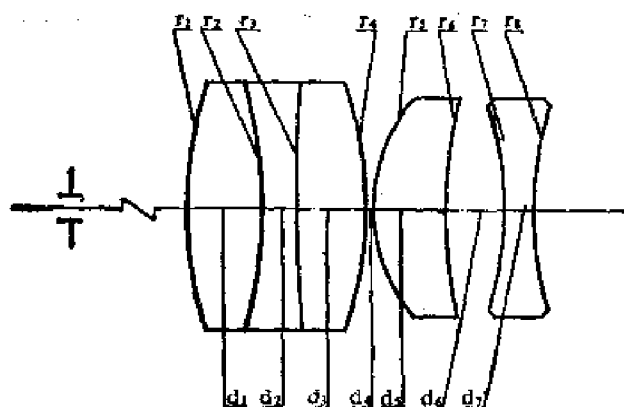
# 目 镜

E.F.L = 1 英寸

B.F.L = 0.243

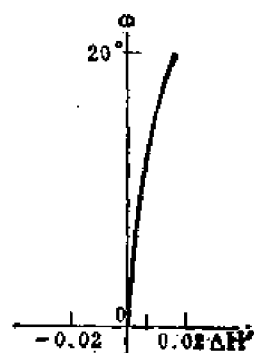
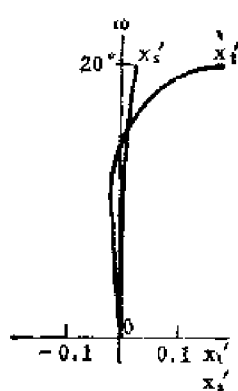
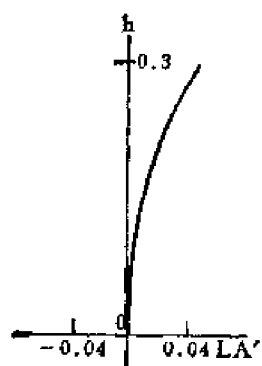
$\phi_{\text{出}}/2 = 0.3^{\circ}$

F.A. =  $\pm 20^{\circ}$



| 序号 | r      | d      | n      | v    |
|----|--------|--------|--------|------|
| 1  | 1.427  | 0.2879 | 1.6204 | 60.3 |
| 2  | -1.827 | 0.1252 | 1.7283 | 28.3 |
| 3  | 9.389  | 0.2503 | 1.6204 | 60.3 |
| 4  | -1.302 | 0.0025 |        |      |
| 5  | 0.601  | 0.2629 | 1.5163 | 64.0 |
| 6  | 2.003  | 0.2003 |        |      |
| 7  | -1.189 | 0.1010 | 1.7283 | 28.3 |
| 8  | 1.189  |        |        |      |

|                |              |              |              |              |              |        |               |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1m)        |           |             |             |
|                | 0.0066       | 0.0025       | 0.0007       | 0.0027       | 0.0280       | 0.36   | 4.4%          |           |             |             |
| h 或 $\omega$ % | $L_p$        | $I_p'$       | $LA'$        | OSC'         | $x_1'$       | $x_2'$ | $x_1' - x_2'$ | $K_{T1}'$ | $K_{T0.7}'$ | $\Delta H'$ |
| 100            | -1.375       | -2049        | 0.044        | 0.020        | 0.188        | 0.012  | 0.176         | 0.184     | 0.184       | 0.016       |
| 70             |              |              | 0.020        | 0.007        | -0.012       | 0.004  | -0.016        | 0.179     | 0.033       | 0.010       |



编号: 08-01-043

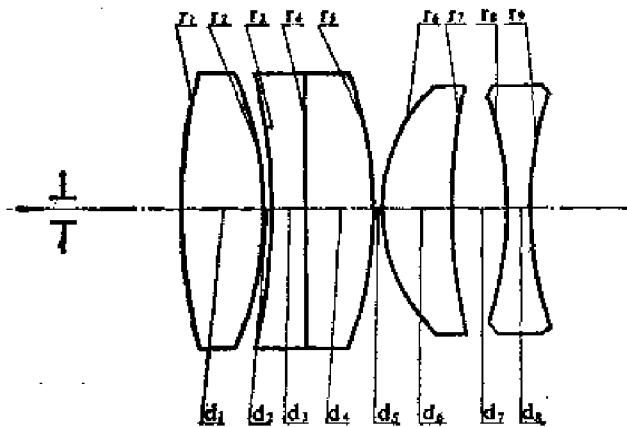
# 目 镜

E.F.L = 1 英寸

B.F.L = 0.248

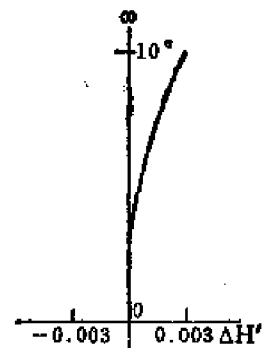
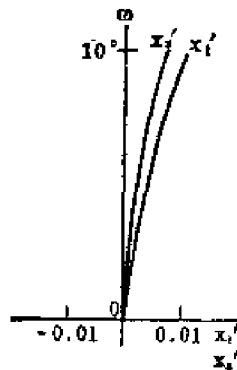
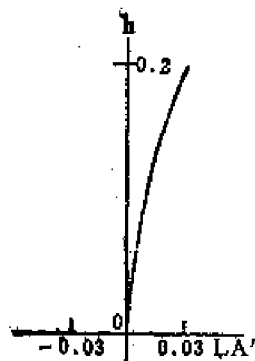
$\phi_{\text{出}}/2 = 0.2^{**}$

F.A. =  $\pm 10^{**}$



| 序号 | r        | d      | n      | v    |
|----|----------|--------|--------|------|
| 1  | 2.433    | 0.2873 | 1.6204 | 60.3 |
| 2  | -1.200   | 0.0025 |        |      |
| 3  | -2.572   | 0.1249 | 1.7283 | 28.3 |
| 4  | $\infty$ | 0.2498 | 1.5163 | 64.0 |
| 5  | -1.424   | 0.0025 |        |      |
| 6  | 0.620    | 0.2623 | 1.5163 | 64.0 |
| 7  | 2.003    | 0.1999 |        |      |
| 8  | -1.199   | 0.0999 | 1.7283 | 28.3 |
| 9  | 1.374    |        |        |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HJ     | QP(100)       |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|----------|------------|-------------|
|                | 0.00233      | 0.00107      | 0.00028      | 0.00034      | 0.00153      | 0.17   | 1.8%          |          |            |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | $LA'$        | $OSC'$       | $x_i'$       | $x_s'$ | $x_i' - x_s'$ | $K_{T1}$ | $K_{T0.7}$ | $\Delta H'$ |
| 100            | -1.32        | 79           | 0.031        | 0.018        | 0.011        | 0.007  | 0.004         | 0.014    | 0.006      | 0.003       |
| 70             |              |              | 0.015        | 0.008        | 0.006        | 0.003  | 0.003         | 0.008    | 0.003      | 0.001       |



编号, 08-01-044

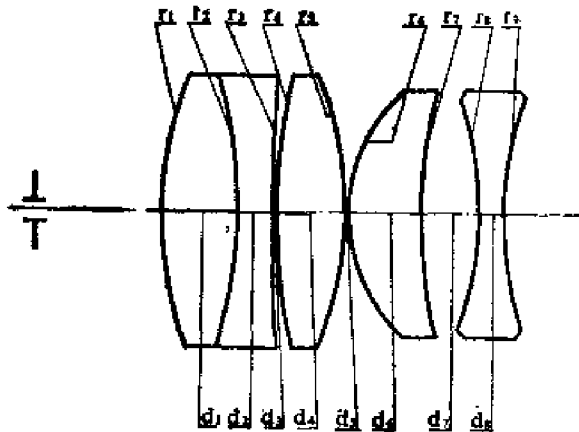
## 目 镜

E.F.L = 1 英寸

B.F.L = 0.238

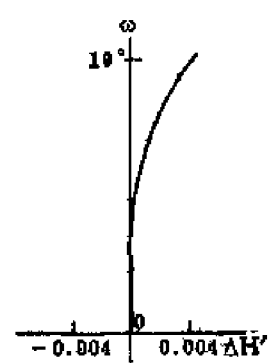
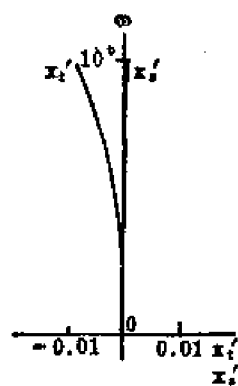
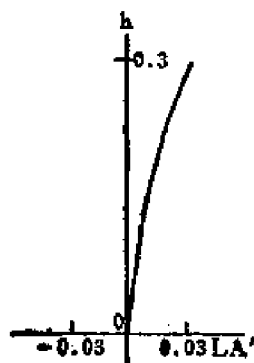
$\phi_n/2 = 0.3^{\circ}$

F.A. =  $\pm 10^{\circ}$



| 序号 | r      | d      | n      | v    |
|----|--------|--------|--------|------|
| 1  | 1.383  | 0.2840 | 1.6204 | 60.3 |
| 2  | -1.857 | 0.1235 | 1.7283 | 28.3 |
| 3  | 8.196  | 0.0025 |        |      |
| 4  | 2.716  | 0.2470 | 1.5163 | 64.0 |
| 5  | -1.423 | 0.0025 |        |      |
| 6  | 0.617  | 0.2592 | 1.5163 | 64.0 |
| 7  | 1.980  | 0.1976 |        |      |
| 8  | -1.208 | 0.0968 | 1.7283 | 28.3 |
| 9  | 1.331  |        |        |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HJ     | QP(10)        |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|----------|------------|-------------|
|                | 0.00539      | 0.00035      | -0.00042     | 0.00079      | 0.00291      | 0.17   | 2.3%          |          |            |             |
| h 或 $\omega$ % | $L_p$        | $l_f$        | $LA'$        | OSC'         | $x_i'$       | $x_s'$ | $x_i' - x_s'$ | $K_{T1}$ | $K_{T0.7}$ | $\Delta H'$ |
| 100            | -1.363       | 974          | 0.035        | 0.009        | -0.009       | 0      | -0.009        | 0.020    | 0.004      | 0.004       |
| 70             |              |              | 0.016        | 0.003        | -0.003       | 0      | -0.003        | 0.008    | 0.002      | 0.001       |



编号: 08-01-045

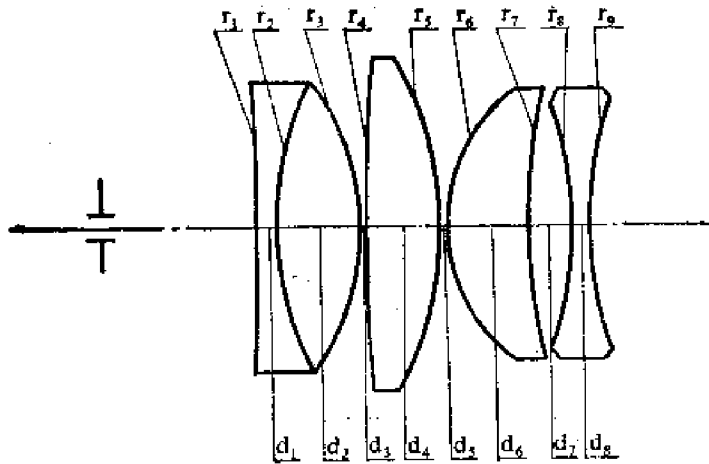
# 目 镜

E.F.L = 1 英寸

B.F.L = 0.194

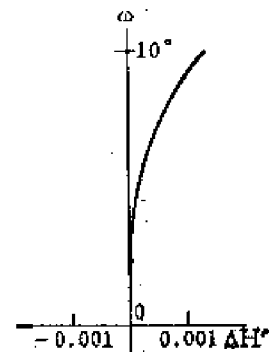
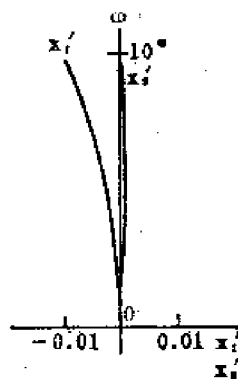
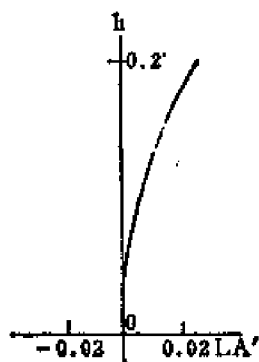
$\phi_{\text{目}}/2 = 0.2^{\circ}$

F.A. =  $\pm 10^{\circ}$



| 序号 | r       | d      | n      | v    |
|----|---------|--------|--------|------|
| 1  | -18.762 | 0.1197 | 1.7283 | 28.3 |
| 2  | 1.908   | 0.5611 | 1.6204 | 60.3 |
| 3  | -1.339  | 0.0075 |        |      |
| 4  | 8.382   | 0.4115 | 1.5687 | 63.1 |
| 5  | -2.095  | 0.0075 |        |      |
| 6  | 1.025   | 0.5087 | 1.5687 | 63.1 |
| 7  | 4.040   | 0.2245 |        |      |
| 8  | -2.633  | 0.1122 | 1.7283 | 28.3 |
| 9  | 2.327   |        |        |      |

|                |              |              |              |              |              |        |               |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |           |             |             |
|                | 0.00206      | 0.00052      | -0.00046     | 0.00047      | 0.00057      | 0.17   | 0.7%          |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l_p$        | $LA'$        | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$ | $K'_{F1}$ | $K'_{F0.7}$ | $\Delta H'$ |
| 100            | -0.865       | 47           | 0.026        | 0.008        | -0.01        | 0      | -0.01         | 0.004     | 0.002       | 0.0013      |
| 70             |              |              | 0.013        | 0.003        | -0.005       | 0      | -0.005        | 0.003     | 0.001       | 0.0004      |

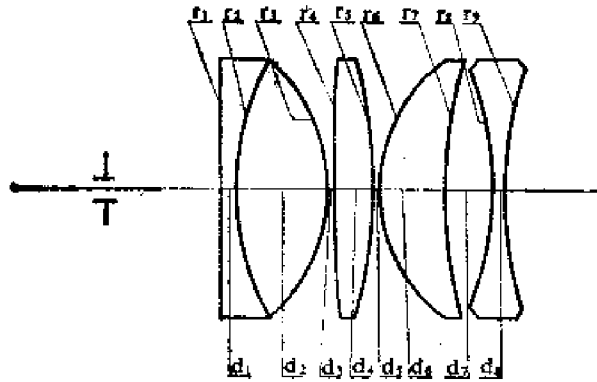




编号: 08-01-046

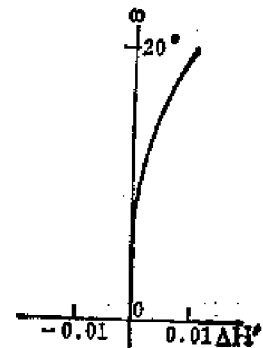
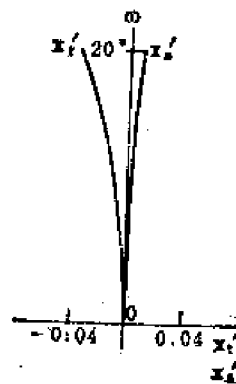
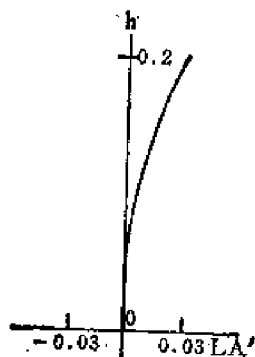
## 目 镜

E.F.L = 1 英寸    B.F.L = 0.18     $\phi_H/2 = 0.2^{\circ}$     F.A. =  $\pm 20^{\circ}$



| 序号 | r        | d      | n      | v    |
|----|----------|--------|--------|------|
| 1  | $\infty$ | 0.1109 | 1.7283 | 28.3 |
| 2  | 2.145    | 0.7026 | 1.6204 | 60.3 |
| 3  | -1.257   | 0.0092 |        |      |
| 4  | 7.396    | 0.3328 | 1.5687 | 63.1 |
| 5  | -2.903   | 0.0092 |        |      |
| 6  | 1.248    | 0.4807 | 1.6923 | 54.7 |
| 7  | 4.021    | 0.2773 |        |      |
| 8  | -2.607   | 0.1109 | 1.7283 | 28.3 |
| 9  | 3.050    |        |        |      |

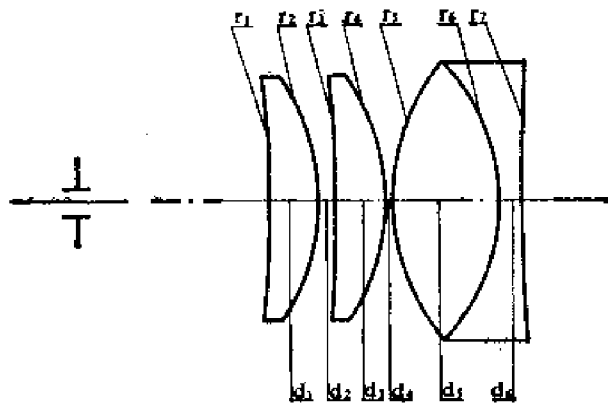
|                |              |              |              |              |              |        |               |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | III    | QP(1w)        |           |             |             |
|                | 0.0022       | 0.0013       | -0.0017      | 0.0020       | -0.0009      | 0.36   | 2.7%          |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l'_p$       | $LA'$        | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$ | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -0.781       | 556563       | 0.028        | 0.009        | -0.038       | 0.004  | -0.042        | 0.011     | 0.005       | 0.010       |
| 70             |              |              | 0.014        | 0.004        | -0.017       | 0.002  | -0.019        | 0.0077    | 0.0036      | 0.003       |



编号: 08-01-047

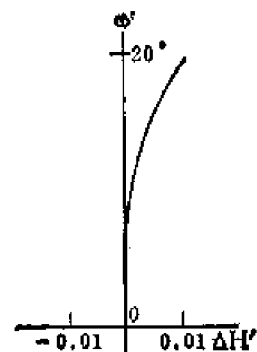
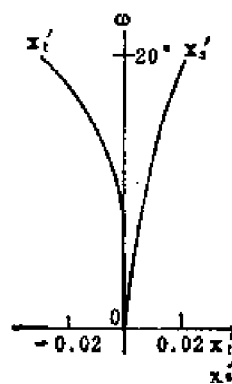
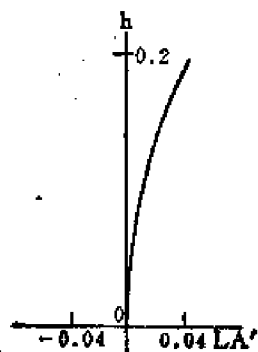
## 目 镜

E.F.L. = 1 英寸    B.F.L. = 0.474     $\phi_H/2 = 0.2^\circ$     F.A. =  $\pm 20''$



| 序号 | r      | d      | n      | v    |
|----|--------|--------|--------|------|
| 1  | -3.523 | 0.2190 | 1.5170 | 64.5 |
| 2  | -1.053 | 0.0728 |        |      |
| 3  | -4.407 | 0.2250 | 1.5170 | 64.5 |
| 4  | -1.070 | 0.0136 |        |      |
| 5  | 1.025  | 0.5210 | 1.5170 | 64.5 |
| 6  | -0.985 | 0.1180 | 1.7506 | 27.7 |
| 7  | 7.943  |        |        |      |

|                |              |              |              |              |              |        |                 |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|                | 0.0032       | 0.0019       | -0.0012      | 0.0034       | 0.0054       | 0.36   | 2.5%            |           |             |             |
| h 或 $\omega$ % | $l_p$        | $l'_p$       | LA'          | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$   | $K'_{f1}$ | $K'_{f0.7}$ | $\Delta H'$ |
| 100            | -0.88        | 13           | 0.041        | 0.014        | -0.035       | 0.021  | -0.056          | 0.017     | 0.007       | 0.009       |
| 70             |              |              | 0.020        | 0.007        | -0.007       | 0.012  | -0.019          | 0.011     | 0.005       | 0.004       |



编号: 08-01-048

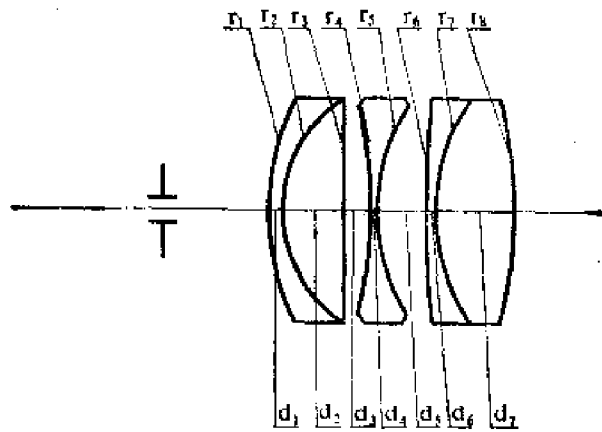
## 目 镜

E.F.L = 1 英寸

B.F.L = 0.812

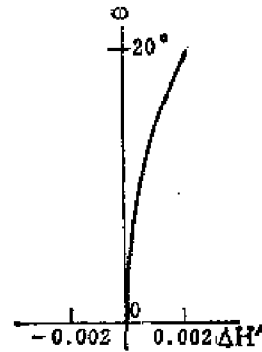
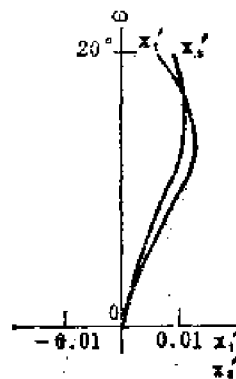
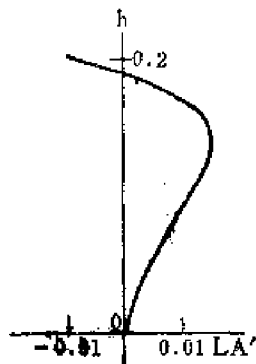
$\phi_m/2 = 0.2^{**}$

F.A. =  $\pm 20^{**}$



| 序号 | r        | d     | n     | v    |
|----|----------|-------|-------|------|
| 1  | 0.365    | 0.017 | 1.523 | 58.6 |
| 2  | 0.212    | 0.089 | 1.642 | 58.1 |
| 3  | $\infty$ | 0.032 |       |      |
| 4  | -0.841   | 0.016 | 1.596 | 39.7 |
| 5  | 0.281    | 0.072 |       |      |
| 6  | 4.080    | 0.017 | 1.583 | 46.5 |
| 7  | 0.327    | 0.119 | 1.678 | 55.5 |
| 8  | -0.631   |       |       |      |

|                |              |              |              |              |              |        |                 |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|                | 0.0035       | 0.0017       | 0.0007       | 0.0015       | 0.0015       | 0.36   | 0.6%            |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l'_p$       | $LA'$        | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$   | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -0.15        | -0.58        | -0.01        | 0.007        | 0.006        | 0.008  | -0.002          | 0.162     | 0.472       | 0.002       |
| 70             |              |              | 0.015        | 0.005        | 0.013        | 0.009  | 0.004           | 0.155     | 0.005       | 0.001       |



编号: 08-01-049

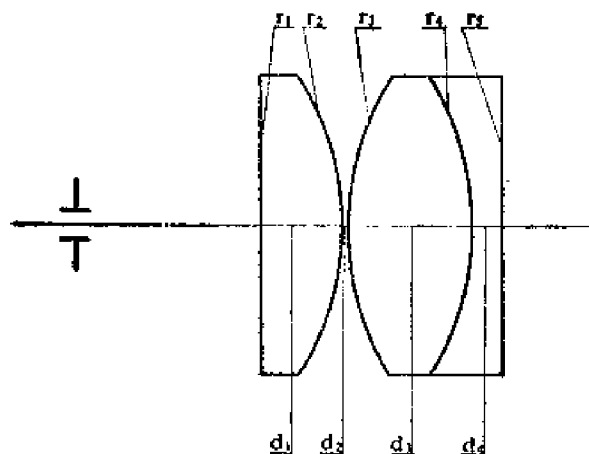
## 目 镜

E.F.L=100

B.F.L=61.1

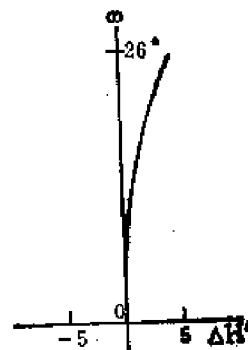
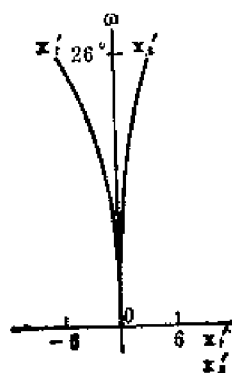
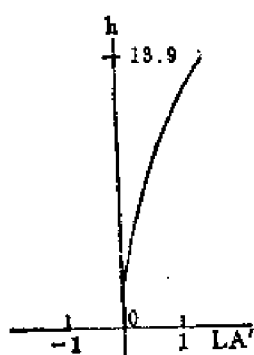
$\phi_{\text{目}}/2=13.9$

F.A.= $\pm 26^\circ$



| 序号 | r        | d    | n       | v    |
|----|----------|------|---------|------|
| 1  | $\infty$ | 29.6 | 1.58913 | 61.2 |
| 2  | -100.962 | 2.2  |         |      |
| 3  | 107.988  | 44.4 | 1.58913 | 61.2 |
| 4  | -107.988 | 11.1 | 1.78470 | 26.1 |
| 5  | $\infty$ |      |         |      |

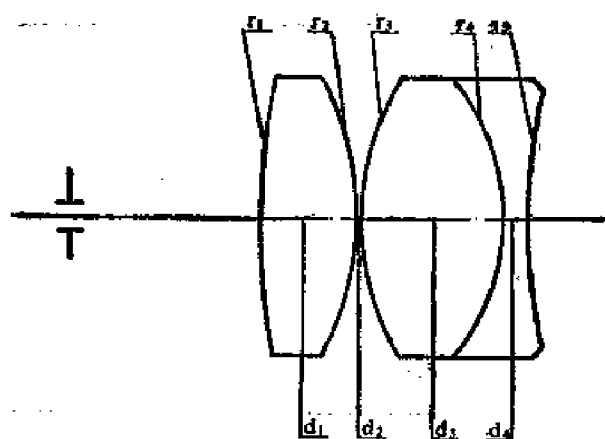
|                |              |              |              |              |              |        |               |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |           |             |             |
|                | 0.0544       | -0.0010      | -0.1306      | 0.2915       | 6.97         | 48.3   | 9.5%          |           |             |             |
| h 或 $\omega\%$ | $L_p$        | $l_p'$       | LA'          | OSC'         | $x_t'$       | $x_s'$ | $x_t' - x_s'$ | $K_{T1}'$ | $K_{T0.7}'$ | $\Delta H'$ |
| 100            | -70          | -581         | 1.44         | 0            | -6.5         | 2.7    | -9.2          | -0.259    | -0.131      | 4.6         |
| 70             |              |              | 0.71         | 0            | -1.9         | 1.6    | -3.5          | -0.056    | -0.030      | 1.6         |



编号: 08-01-050

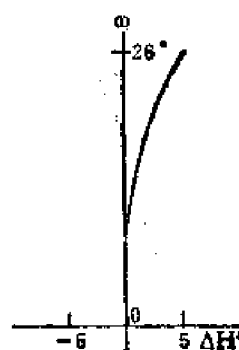
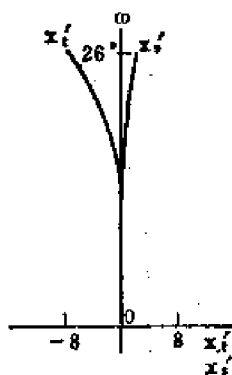
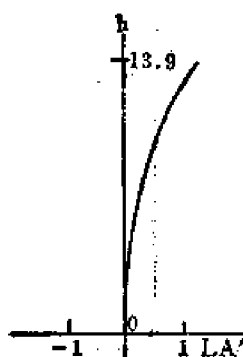
# 目 镜

E.F.L=100.3    B.F.L=51.4     $\phi_H/2=13.9$     F.A.= $\pm 26^\circ$



| 序号 | r      | d    | n           | v    |
|----|--------|------|-------------|------|
| 1  | 458.0  | 33.3 | 1.5074<br>1 | 56.7 |
| 2  | -110.0 | 0.7  |             | 1    |
| 3  | 102.0  | 50.0 | 1.6228      | 56.9 |
| 4  | -83.6  | 10.0 | 1.7552      | 27.5 |
| 5  | 225.0  |      |             |      |

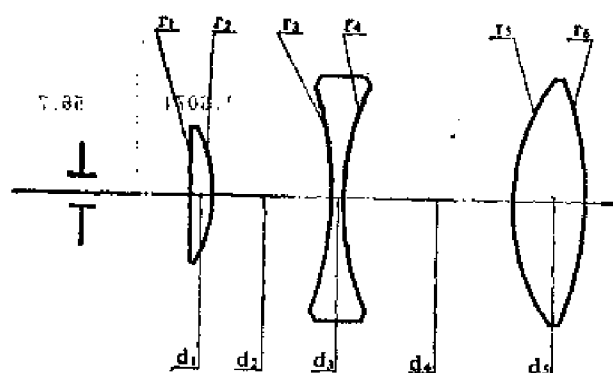
|                |              |              |              |              |              |        |               |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1%)        |           |             |             |
|                | 0.0485       | -0.0125      | -0.0843      | 0.2504       | 1.7023       | 48.4   | 9.9%          |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l'_p$       | LA'          | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$ | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -70          | -290         | 1.294        | -0.0008      | -7.5         | 2.2    | -9.7          | -0.600    | -0.294      | 4.8         |
| 70             |              |              | 0.639        | -0.0004      | -1.3         | 1.5    | -2.8          | -0.172    | -0.088      | 1.7         |



编号: 08-01-051

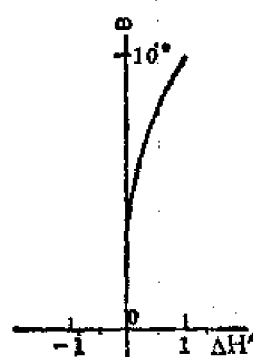
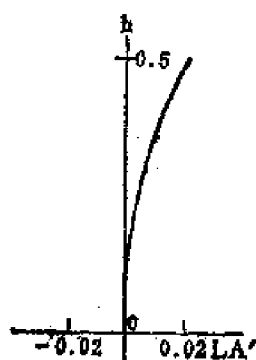
## 外焦点型低倍目镜

E.F.L=62.4    B.F.L=23.4     $\phi_w/2=0.5^\circ$     F.A. =  $\pm 10^\circ$



| 序号 | r        | d     | n       | v    |
|----|----------|-------|---------|------|
| 1  | $\infty$ | 3.14  | 1.51633 | 64.0 |
| 2  | -30.040  | 20.90 |         |      |
| 3  | -70.155  | 2.09  | 1.59270 | 38.4 |
| 4  | 54.247   | 81.36 |         |      |
| 5  | 39.363   | 12.47 | 1.62041 | 60.2 |
| 6  | -63.352  |       |         |      |

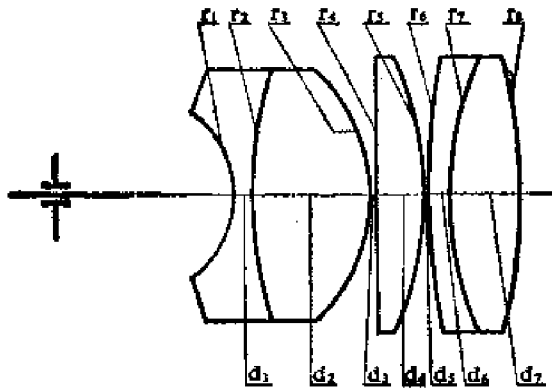
|                |              |              |              |              |              |        |               |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|----------|------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1w)        |          |            |             |
|                | 0.000002     | 0.000006     | 0.000117     | 0.000116     | 0.011        | 11     | 9.3%          |          |            |             |
| h 或 $\omega$ % | $L_p$        | $l_p$        | $LA'$        | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$ | $K_{T1}$ | $K_{T0.7}$ | $\Delta H'$ |
| 100            | -20**        | 116          | 0.019        | 0            | 4.8          | 2.1    | 2.7           | 0.0019   | 0.0009     | 1.0         |
| 70             |              |              | 0.009        | 0            | 2.0          | 0.9    | 1.1           | 0.0010   | 0.0005     | 0.3         |



编号: 08-01-052

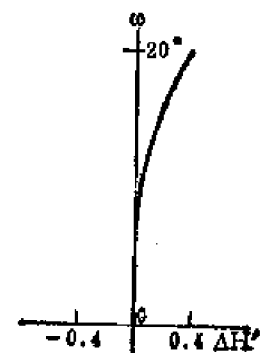
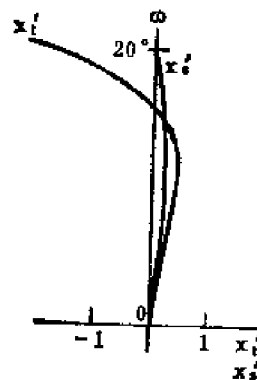
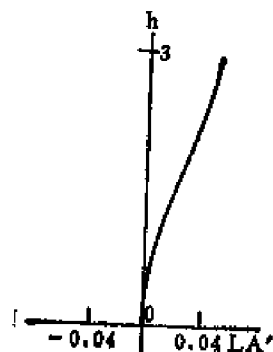
# 广角补偿 目镜

E.F.L=25.2 B.F.L=40.8  $\phi_M/2=3^{**}$  F.A.= $\pm 20^{**}$



| 序号 | r        | d    | n      | v    |
|----|----------|------|--------|------|
| 1  | -9.00    | 2.0  | 1.7847 | 25.7 |
| 2  | 45.00    | 10.0 | 1.6223 | 53.1 |
| 3  | -16.09   | 0.3  |        |      |
| 4  | $\infty$ | 4.0  | 1.6223 | 53.1 |
| 5  | -29.30   | 0.3  |        |      |
| 6  | 70.00    | 2.0  | 1.7847 | 25.7 |
| 7  | 30.20    | 6.0  | 1.6237 | 47.0 |
| 8  | -51.90   |      |        |      |

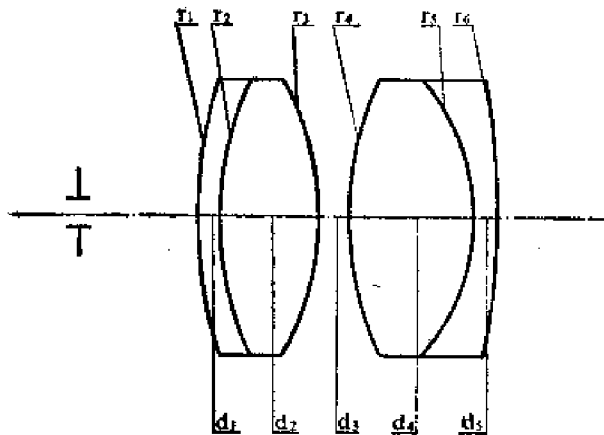
|                |              |              |              |              |              |        |                 |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | Hf     | QP(1 $\omega$ ) |           |             |             |
|                | 0.0028       | 0.0169       | 0.0291       | -0.0015      | 0.1480       | 9.2    | 3.8%            |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l'_p$       | LA'          | OSC'         | $x'_i$       | $x'_s$ | $x'_i - x'_s$   | $K'_{f1}$ | $K'_{f0.7}$ | $\Delta H'$ |
| 100            | -16**        | 123.3        | 0.048        | 0.006        | -2.5         | 0.03   | -2.53           | -1.13     | -0.38       | 0.35        |
| 70             |              |              | 0.038        | 0.003        | 0.43         | 0.27   | 0.16            | -0.156    | -0.042      | 0.16        |



编号: 08-01-053

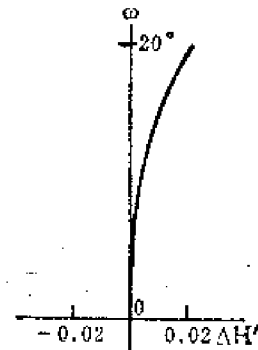
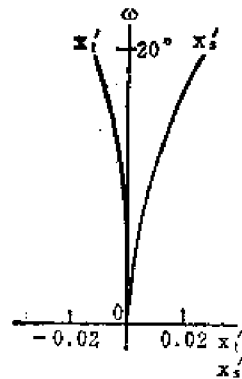
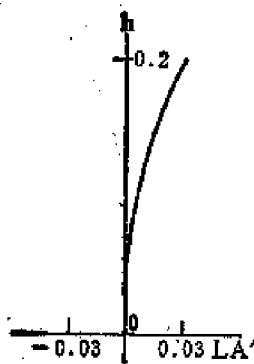
## 目 镜

E.F.L = 1 英寸    B.F.L = 0.531     $\phi_{出}/2 = 0.2^{**}$     F.A. =  $\pm 20^{**}$



| 序号 | r      | d     | n     | $\nu^{**}$ |
|----|--------|-------|-------|------------|
| 1  | 2.942  | 0.080 | 1.573 | 42.6       |
| 2  | 1.198  | 0.354 | 1.516 | 64.0       |
| 3  | -0.991 | 0.106 |       |            |
| 4  | 1.145  | 0.443 | 1.516 | 64.0       |
| 5  | -0.784 | 0.089 | 1.648 | 33.8       |
| 6  | -6.600 |       |       |            |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | 0.00246      | - 0.00057    | - 0.00147    | 0.00392      | 0.00936      | 0.36   | 5.8%            |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | LA'          | OSC'         | $x_i'$       | $x_s'$ | $x_i' - x_s'$   | $K_{f1}'$ | $K_{f0.7}'$ | $\Delta H'$ |
| 100            | - 0.40       | - 2.5        | 0.032        | - 0.003      | - 0.014      | 0.025  | - 0.039         | - 0.005   | - 0.002     | 0.021       |
| 70             |              |              | 0.015        | - 0.002      | - 0.004      | 0.014  | - 0.018         | - 0.003   | - 0.001     | 0.007       |





编号: 08-01-054

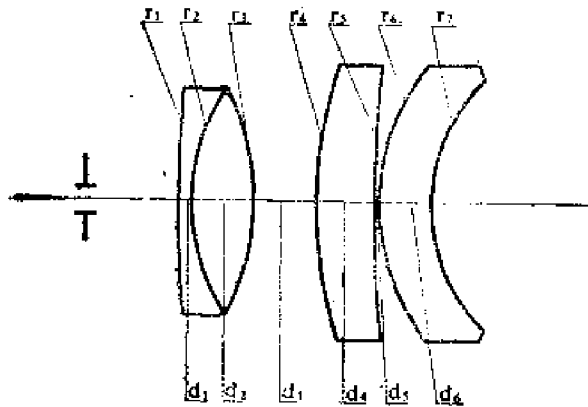
# 大入射角双目光学仪器的目镜

E.F.L=60

B.F.L=33.27

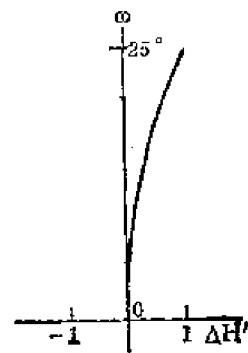
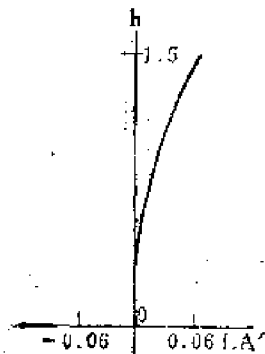
$\phi_{\text{视}}/2=1.5^{**}$

F.A.= $\pm 25^{\circ}$



| 序号 | r       | d    | n       | v    |
|----|---------|------|---------|------|
| 1  | 1000.00 | 2.2  | 1.64769 | 33.9 |
| 2  | 40.38   | 11.1 | 1.58913 | 61.2 |
| 3  | -44.87  | 11.1 |         |      |
| 4  | 75.48   | 11.1 | 1.51633 | 64.1 |
| 5  | 228.79  | 0.4  |         |      |
| 6  | 40.00   | 10.0 | 1.51633 | 64.1 |
| 7  | 30.54   |      |         |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|                | 0.00008      | -0.00025     | -0.00005     | 0.00415      | 0.08750      | 27.9   | 3.8%          |           |             |             |
| h 或 $\omega$ % | $I_p$        | $I_p'$       | LA'          | OSC'         | $x_1'$       | $x_2'$ | $x_1' - x_2'$ | $K_{T1}'$ | $K_{T0.7}'$ | $\Delta H'$ |
| 100            | -16**        | -51          | 0.063        | -0.0001      | 2.4          | 2.5    | -0.1          | -0.017    | -0.008      | 1.1         |
| 70             |              |              | 0.031        | 0            | 1.33         | 1.34   | -0.01         | -0.010    | -0.005      | 0.5         |



编号: 08-01-055

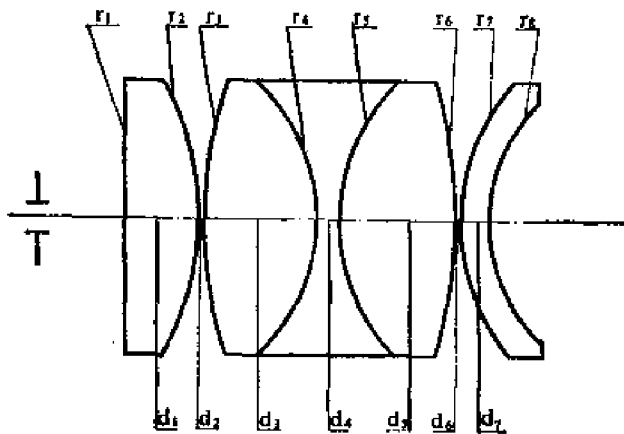
## 大入射角双目光学仪器的目镜

E.F.L=62.2

B.F.L=27.3

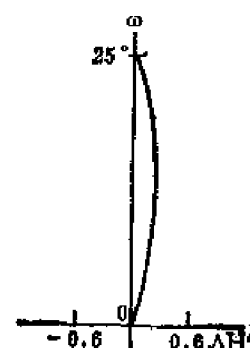
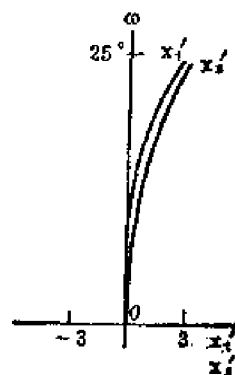
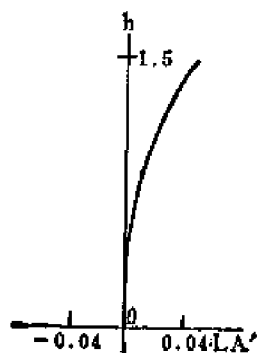
$\phi_{出}/2=1.5^{\circ}$

F.A.= $\pm 25^{\circ}$



| 序号 | r        | d    | n       | v    |
|----|----------|------|---------|------|
| 1  | $\infty$ | 12.8 | 1.61293 | 36.9 |
| 2  | -51.60   | 0.4  |         |      |
| 3  | 85.80    | 20.0 | 1.51633 | 64.1 |
| 4  | -33.48   | 4.0  | 1.61293 | 36.9 |
| 5  | 35.94    | 20.0 | 1.51633 | 64.1 |
| 6  | -94.80   | 0.4  |         |      |
| 7  | 40.00    | 6.0  | 1.58913 | 61.2 |
| 8  | 30.70    |      |         |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | 0.00005      | -0.00025     | -0.00064     | 0.00481      | 0.04231      | 29     | ~0.1%           |           |             |             |
| h 或 $\omega$ % | $I_p$        | $I_p'$       | LA'          | OSC'         | $x_i'$       | $x_s'$ | $x_i' - x_s'$   | $K_{T1}'$ | $K_{T0.7}'$ | $\Delta H'$ |
| 100            | -15**        | -59          | 0.047        | -0.0001      | 2.9          | 3.0    | -0.1            | -0.024    | -0.012      | -0.03       |
| 70             |              |              | 0.023        | 0            | 1.2          | 1.5    | -0.3            | -0.011    | -0.005      | 0.33        |



编号: 08-01-056

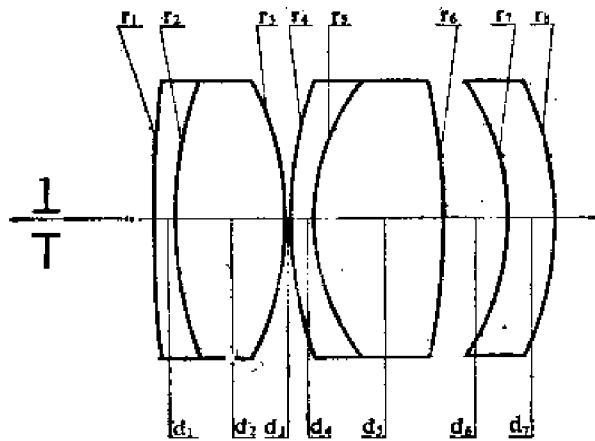
# 大入射角双目光学仪器的目镜

E.F.L=10

B.F.L=3.06

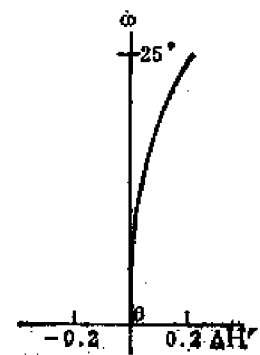
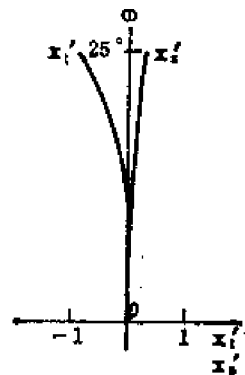
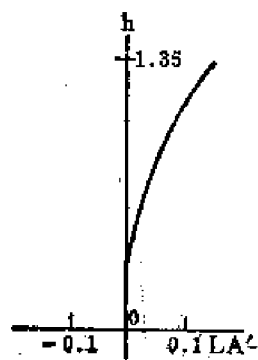
$\phi_H/2=1.35$

F.A.= $\pm 25^\circ$



| 序号 | r       | d     | n       | v    |
|----|---------|-------|---------|------|
| 1  | 80.248  | 0.804 | 1.71736 | 29.5 |
| 2  | 15.206  | 4.012 | 1.64000 | 60.2 |
| 3  | -11.212 | 0.099 |         |      |
| 4  | 15.014  | 0.904 | 1.74077 | 27.8 |
| 5  | 8.018   | 4.609 | 1.63854 | 55.4 |
| 6  | -32.407 | 2.259 |         |      |
| 7  | -9.049  | 1.717 | 1.51633 | 64.1 |
| 8  | -11.748 |       |         |      |

|                |              |              |              |              |              |        |               |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |           |             |             |
|                | 0.0055       | 0.0054       | -0.0101      | 0.0259       | 0.0890       | 4.7    | 4.4%          |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l'_p$       | $LA'$        | $OSC'$       | $x'_i$       | $x'_s$ | $x'_i - x'_s$ | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -7.95        | 78.5         | 0.155        | 0.004        | -0.91        | 0.28   | -1.19         | 0.023     | 0.011       | 0.20        |
| 70             |              |              | 0.077        | 0.002        | -0.17        | 0.17   | -0.34         | 0.035     | 0.017       | 0.08        |



编号: 08-01-057

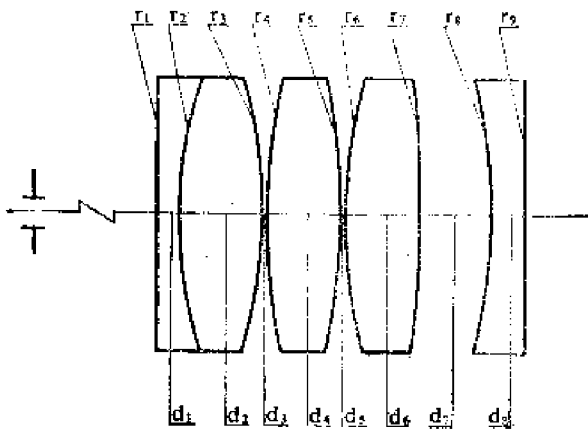
# 大入射角双目光学仪器的目镜

E.F.L=10

B.F.L=3.7

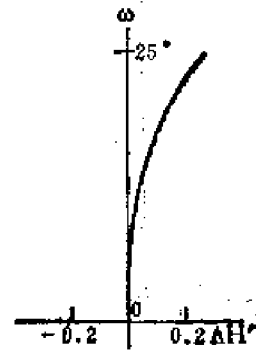
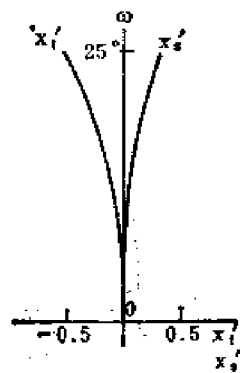
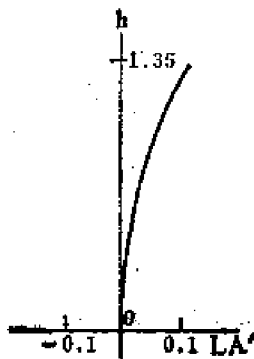
$\phi_{\text{出}}/2=1.35$

F.A.= $\pm 25^\circ$



| 序号 | r        | d     | n       | v    |
|----|----------|-------|---------|------|
| 1  | $\infty$ | 0.895 | 1.80518 | 25.4 |
| 2  | 16.334   | 2.967 | 1.62041 | 60.3 |
| 3  | -16.336  | 0.179 |         |      |
| 4  | 26.238   | 2.686 | 1.62041 | 60.3 |
| 5  | -26.238  | 0.179 |         |      |
| 6  | 18.205   | 2.686 | 1.62041 | 60.3 |
| 7  | -37.611  | 2.597 |         |      |
| 8  | -21.940  | 1.343 | 1.80518 | 25.4 |
| 9  | $\infty$ |       |         |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|----------|------------|-------------|
|                | 0.0046       | 0.0035       | -0.0150      | 0.0233       | 0.0523       | 4.6    | 5.6%            |          |            |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | LA'          | OSC'         | $x_1'$       | $x_2'$ | $x_1' - x_2'$   | $K_{T1}$ | $K_{T0.7}$ | $\Delta H'$ |
| 100            | -8.96        | 97.4         | 0.128        | 0.0028       | -0.52        | 0.24   | -0.76           | 0.045    | 0.022      | 0.26        |
| 70             |              |              | 0.063        | 0.0014       | -0.26        | 0.11   | -0.37           | 0.029    | 0.014      | 0.09        |



编号: 08-01-058

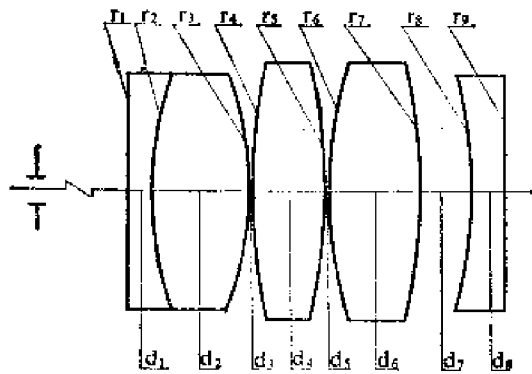
# 大入射角双目光学仪器的目镜

E.F.L=10

B.F.L=3.33

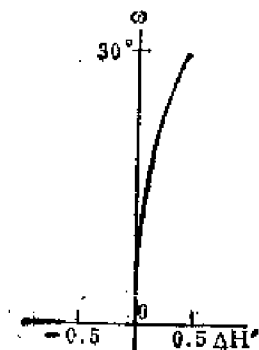
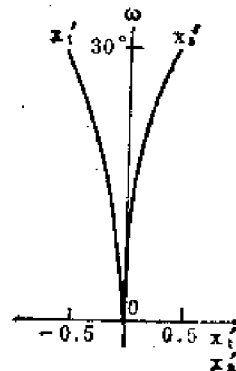
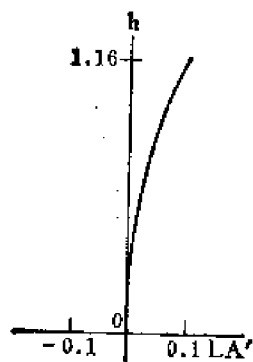
$\phi_{\pm}/2=1.16$

F.A.= $\pm 30^{\circ}$



| 序号 | r        | d     | n       | v    |
|----|----------|-------|---------|------|
| 1  | $\infty$ | 0.993 | 1.80518 | 25.4 |
| 2  | 15.158   | 4.172 | 1.62041 | 60.3 |
| 3  | -15.158  | 0.199 |         |      |
| 4  | 28.045   | 3.179 | 1.62041 | 60.3 |
| 5  | -28.045  | 0.199 |         |      |
| 6  | 19.047   | 3.775 | 1.62041 | 60.3 |
| 7  | -27.517  | 2.185 |         |      |
| 8  | -18.536  | 1.391 | 1.80518 | 25.4 |
| 9  | $\infty$ |       |         |      |

|                |              |              |              |              |              |        |               |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |           |             |             |
|                | 0.0025       | 0.0031       | -0.0163      | 0.0261       | 0.0840       | 5.7    | 7.6%          |           |             |             |
| h 或 $\omega$ % | $l_p$        | $l'_p$       | LA'          | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$ | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -7.95        | 108.7        | 0.094        | 0.0023       | -0.51        | 0.41   | -0.92         | 0.0721    | 0.0341      | 0.44        |
| 70             |              |              | 0.047        | 0.0011       | -0.34        | 0.17   | -0.51         | 0.0305    | 0.0130      | 0.15        |



编号: 08-01-059

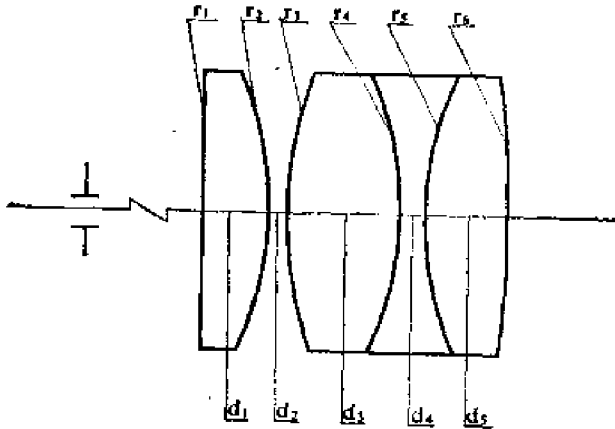
# 低成本较大视场目镜

E.F.L=25

B.F.L=14.87

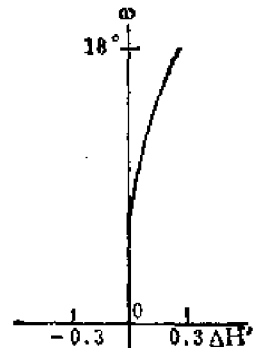
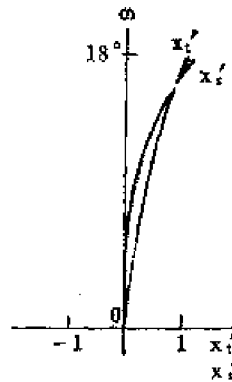
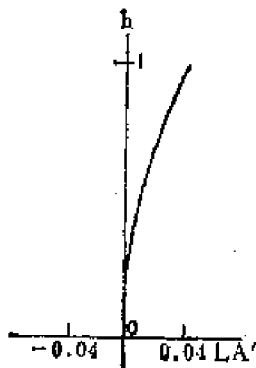
$\phi_{\text{出}}/2=1^{\circ}$

F.A.= $\pm 18^{\circ}$



| 序号 | r        | d   | n       | v    |
|----|----------|-----|---------|------|
| 1  | $\infty$ | 4.2 | 1.58913 | 61.1 |
| 2  | -20.51   | 1.0 |         |      |
| 3  | 24.50    | 6.8 | 1.51823 | 59.0 |
| 4  | -20.51   | 1.5 | 1.72825 | 28.5 |
| 5  | 20.51    | 5.3 | 1.51823 | 59.0 |
| 6  | -53.76   |     |         |      |

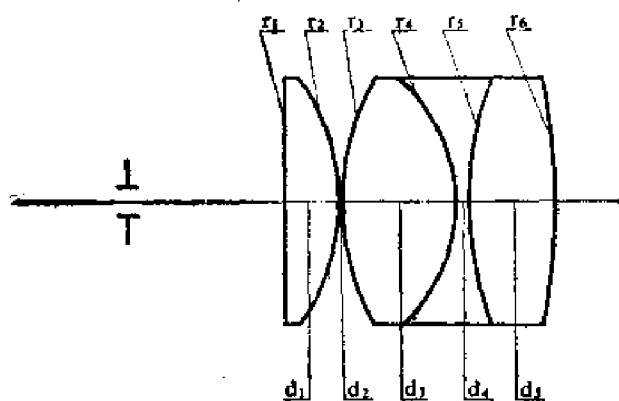
|                |              |              |              |              |              |        |                 |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|----------|------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |          |            |             |
|                | 0.00015      | 0.00056      | 0.00067      | 0.00322      | 0.01611      | 8.1    | 3.3%            |          |            |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | LA'          | OSC'         | $x_1'$       | $x_2'$ | $x_3' - x_2'$   | $K_{T1}$ | $K_{T0.7}$ | $\Delta H'$ |
| 100            | -26.1        | 182.7        | 0.047        | 0.0008       | 0.98         | 1.06   | -0.08           | 0.0214   | 0.0106     | 0.27        |
| 70             |              |              | 0.023        | 0.0004       | 0.66         | 0.55   | 0.11            | 0.0146   | 0.0073     | 0.11        |



编号: 08-01-060

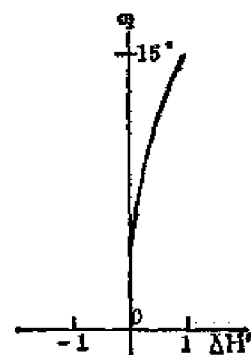
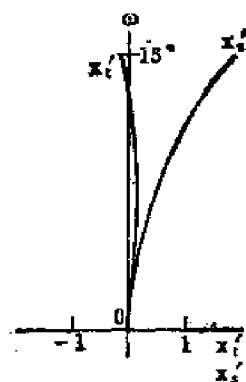
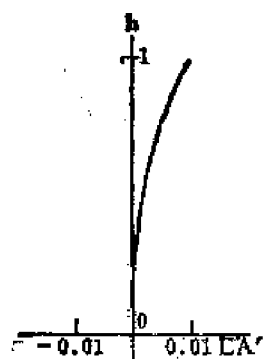
## 望远镜目镜

E.F.L=100英寸 B.F.L=27.3  $\phi_H/2=1^{**}$  F.A. =  $\pm 15^{**}$



| 序号 | r        | d    | n      | v    |
|----|----------|------|--------|------|
| 1  | $\infty$ | 28.5 | 1.7015 | 41.1 |
| 2  | -105.9   | 0.8  |        |      |
| 3  | 128.0    | 57.0 | 1.5687 | 63.1 |
| 4  | -87.6    | 8.2  | 1.7283 | 28.3 |
| 5  | 193.0    | 45.0 | 1.5687 | 63.1 |
| 6  | -315.0   |      |        |      |

|                |              |              |              |              |              |        |                 |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|----------|------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |          |            |             |
|                | 0            | 0.00001      | -0.00015     | 0.00049      | 0.00721      | 26.8   | 2.8%            |          |            |             |
| h 或 $\omega$ % | $L_p$        | $I_p'$       | LA'          | OSC'         | $x_1'$       | $x_2'$ | $x_1' - x_2'$   | $K_{T1}$ | $K_{T0.7}$ | $\Delta H'$ |
| 100            | -82          | 4550         | 0.0078       | 0            | -0.14        | 1.58   | -1.72           | 0.0014   | 0.0007     | 0.76        |
| 70             |              |              | 0.0039       | 0            | 0.006        | 0.800  | -0.794          | 0.0010   | 0.0005     | 0.27        |



编号: 08-01-061

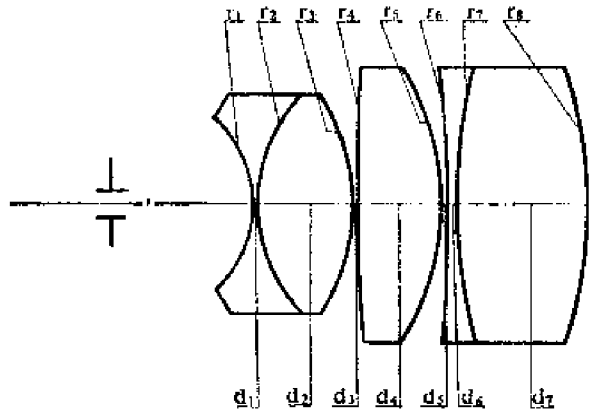
## 瞄准器光学系统

E.F.L=119.4

B.F.L=178.6

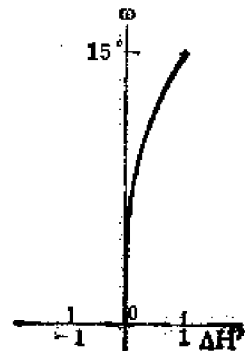
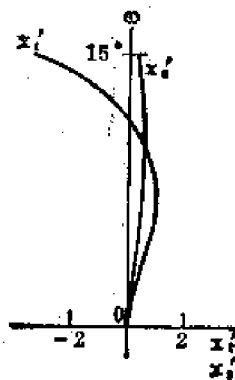
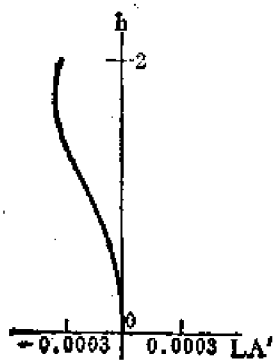
$\phi_{th}/2=2^{**}$

F.A.= $\pm 15^{***}$



| 序号 | r        | d  | n     | v    |
|----|----------|----|-------|------|
| 1  | -43.42   | 2  | 1.720 | 29.2 |
| 2  | 59.92    | 34 | 1.574 | 56.8 |
| 3  | -71.40   | 1  |       |      |
| 4  | 1712.00  | 30 | 1.620 | 60.0 |
| 5  | -97.22   | 1  |       |      |
| 6  | -1350.00 | 4  | 1.621 | 36.2 |
| 7  | 201.84   | 47 | 1.620 | 60.0 |
| 8  | -151.16  |    |       |      |

|                |              |              |              |              |              |        |               |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|----------|------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |          |            |             |
|                | 0            | 0.00013      | 0.00074      | 0.00028      | 0.03790      | 32     | 2.8%          |          |            |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | LA'          | OSC'         | $x_i$        | $x_s'$ | $x_i' - x_s'$ | $K_{f1}$ | $K_{f0.7}$ | $\Delta H'$ |
| 100            | -50**        | 1831         | -0.0003      | 0            | -3.58        | 0.38   | -3.96         | -0.030   | -0.015     | 0.91        |
| 70             |              |              | -0.0003      | 0            | 0.57         | 0.58   | -0.01         | -0.002   | -0.001     | 0.35        |





编号: 08-01-062

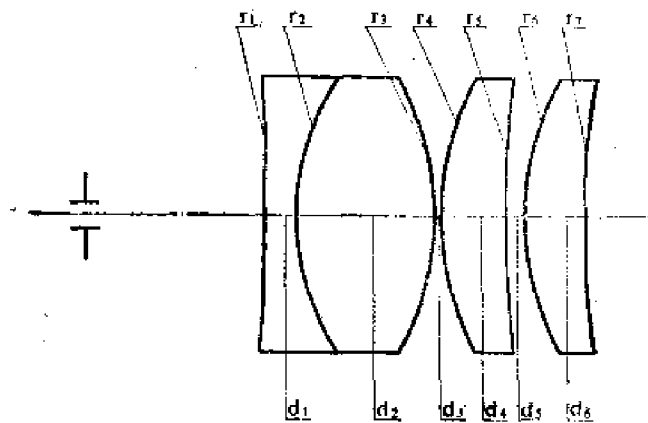
## 望远镜目镜

E.F.L = 1

B.F.L = 0.803

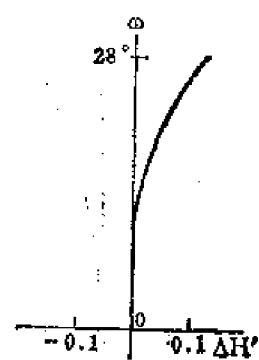
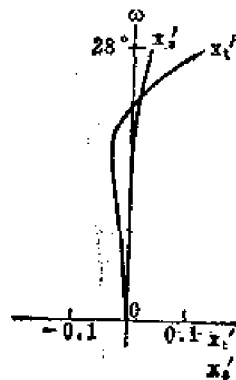
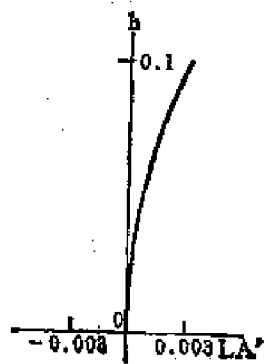
$\phi_{\text{视}}/2 = 0.1^{\circ}$

F.A. =  $\pm 28^{\circ}$



| 序号 | r       | d      | n      | v    |
|----|---------|--------|--------|------|
| 1  | -7.9100 | 0.1180 | 1.7506 | 27.7 |
| 2  | 0.9349  | 0.5210 | 1.5170 | 64.5 |
| 3  | -1.0290 | 0.0136 |        |      |
| 4  | 1.0704  | 0.2250 | 1.5170 | 64.5 |
| 5  | 4.4071  | 0.0728 |        |      |
| 6  | 1.0527  | 0.2190 | 1.5170 | 64.5 |
| 7  | 3.5231  |        |        |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1%)        |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|----------|------------|-------------|
|                | 0.00006      | -0.00018     | -0.00129     | 0.00184      | 0.02140      | 0.53   | 23%           |          |            |             |
| h 或 $\omega$ % | $L_p$        | $l'_p$       | $LA'$        | $OSC'$       | $x'_1$       | $x'_2$ | $x'_1 - x'_2$ | $K_{T1}$ | $K_{T0.7}$ | $\Delta H'$ |
| 100            | -0.65**      | 6.57         | 0.003        | -0.0016      | 0.132        | 0.036  | 0.096         | 0.500    | 0.502      | 0.12        |
| 70             |              |              | 0.001        | -0.00018     | -0.033       | 0.009  | -0.042        | -0.002   | -0.001     | 0.03        |



编号: 08-01-063

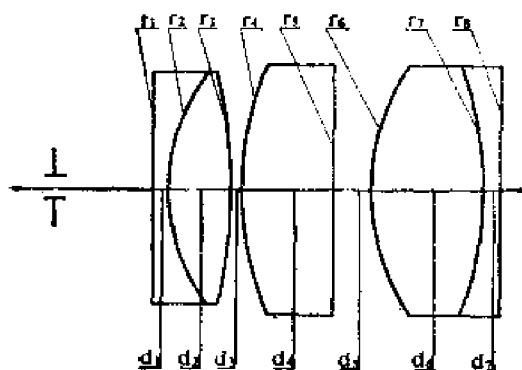
## 目 镜

E.F.L=15.12

B.F.L=5.69

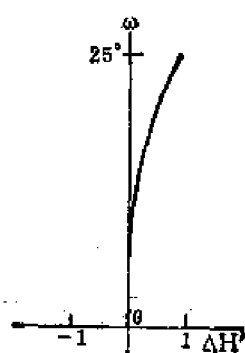
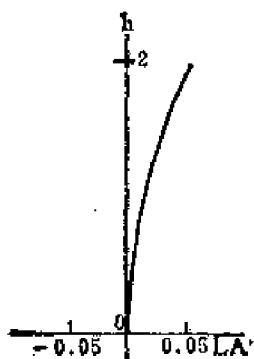
$\phi_{\text{出}}/2=2^{**}$

F.A.= $\pm 25^{**}$



| 序号 | r        | d   | n     | v    |
|----|----------|-----|-------|------|
| 1  | $\infty$ | 1.0 | 1.626 | 39.1 |
| 2  | 11.9     | 3.5 | 1.620 | 58.1 |
| 3  | -32.0    | 0.9 |       |      |
| 4  | 20.5     | 5.5 | 1.520 | 63.6 |
| 5  | $\infty$ | 2.3 |       |      |
| 6  | 14.3     | 6.7 | 1.512 | 59.8 |
| 7  | -22.3    | 1.0 | 1.708 | 36.5 |
| 8  | $\infty$ |     |       |      |

|                |              |              |              |              |              |        |                 |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|                | 0.0049       | -0.0037      | -0.0231      | 0.0424       | 0.2706       | 7      | 10.9%           |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l'_p$       | LA'          | OSC'         | $x'_t$       | $x'_s$ | $x'_t - x'_s$   | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -12**        | 104          | 0.057        | -0.002       | -1.32        | 0.33   | -1.65           | -0.091    | -0.042      | 0.77        |
| 70             |              |              | 0.028        | -0.001       | -0.45        | 0.20   | -0.65           | -0.033    | -0.016      | 0.29        |



编号: 08-01-064

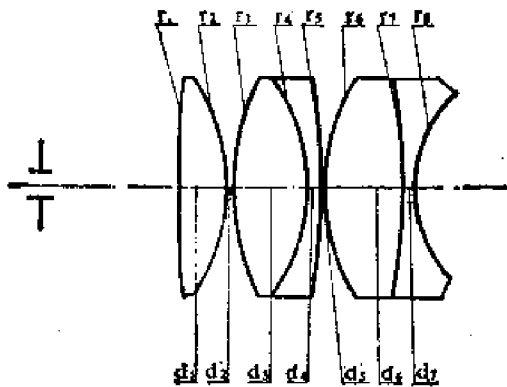
## 双筒光学仪器的目镜

E.F.L=100

B.F.L=20.4

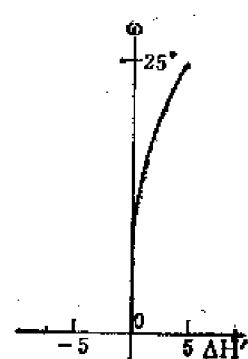
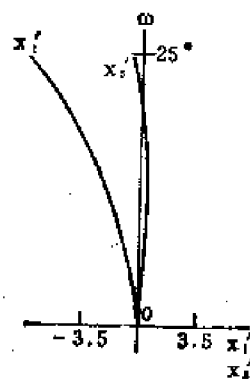
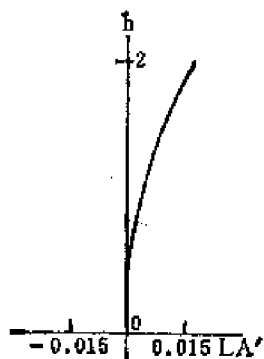
$\phi_{\text{目}}/2=2^{\circ}$

F.A. =  $\pm 25^{\circ}$



| 序号 | r       | d      | n      | v    |
|----|---------|--------|--------|------|
| 1  | 757.81  | 35.486 | 1.6074 | 56.7 |
| 2  | -143.66 | 0.710  |        |      |
| 3  | 183.48  | 53.229 | 1.6204 | 60.3 |
| 4  | -126.21 | 8.517  | 1.7618 | 26.5 |
| 5  | -960.18 | 0.710  |        |      |
| 6  | 106.19  | 52.520 | 1.6204 | 60.3 |
| 7  | -571.92 | 11.356 | 1.7552 | 27.5 |
| 8  | 63.14   |        |        |      |

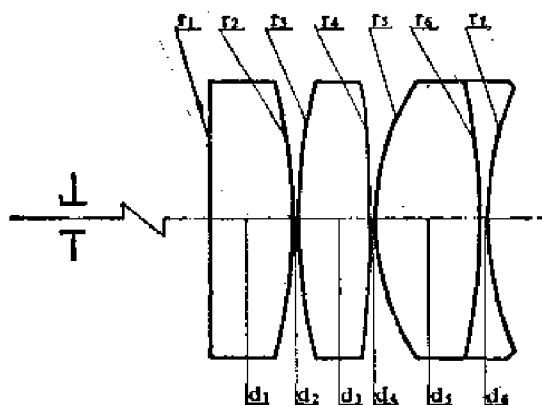
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|                | 0.00001      | 0            | -0.00268     | 0.00315      | 0.24195      | 46.7   | 10%           |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l'_p$       | $LA'$        | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$ | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -100**       | -424         | 0.016        | 0            | -7.75        | -0.22  | -7.54         | 0.00016   | 0.00004     | 4.7         |
| 70             |              |              | 0.008        | 0            | -3.19        | 0.07   | -3.26         | 0.00021   | 0.00007     | 1.7         |



编号: 08-01-065

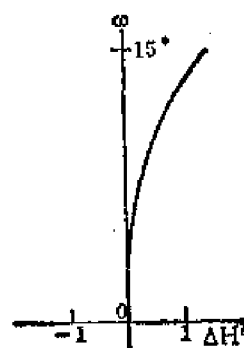
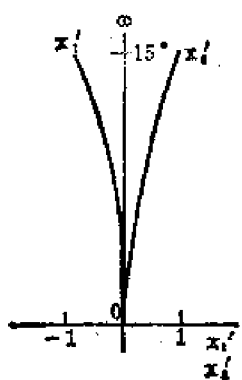
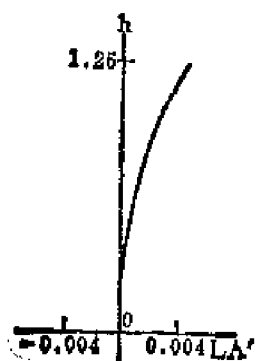
## 目 镜

E.F.L=100 B.F.L=58.4  $\phi_{\text{出}}/2=1.25^{**}$  F.A.  $\approx \pm 15^{**}$



| 序号 | r        | d    | n      | v    |
|----|----------|------|--------|------|
| 1  | $\infty$ | 25.0 | 1.6073 | 59.5 |
| 2  | -159.0   | 1.0  |        |      |
| 3  | 180.0    | 21.0 | 1.6073 | 59.5 |
| 4  | -590.0   | 0.5  |        |      |
| 5  | 79.3     | 31.0 | 1.4861 | 70.6 |
| 6  | -222.0   | 2.5  | 1.6477 | 33.9 |
| 7  | 103.5    |      |        |      |

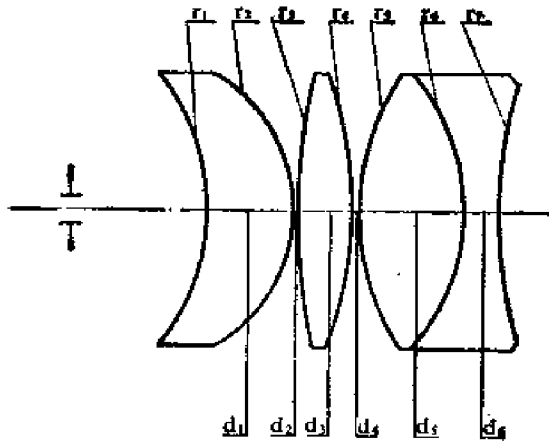
|                |              |              |              |              |              |        |               |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |           |             |             |
|                | 0            | -0.00002     | -0.00024     | 0.00061      | 0.02379      | 26.8   | 4.7%          |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l'_p$       | $LA'$        | OSC'         | $x'_1$       | $x'_2$ | $x'_2 - x'_1$ | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -70**        | -314         | 0.004        | 0            | -0.88        | 0.93   | -1.81         | -0.003    | -0.001      | 1.3         |
| 70             |              |              | 0.002        | 0            | -0.29        | 0.52   | -0.81         | -0.002    | -0.001      | 0.4         |



编号: 08-01-066

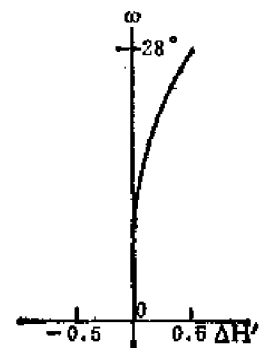
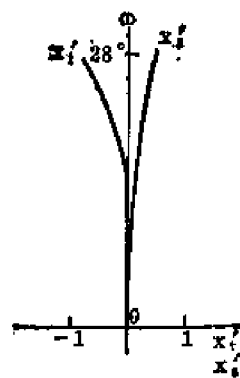
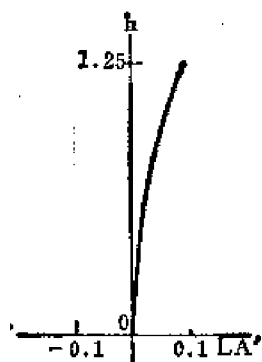
## 目 镜

E.F.L=15.6    B.F.L=7.16     $\phi_{di}/2=1.25^{**}$     F.A.= $\pm 28^{**}$



| 序号 | r       | d   | n       | v ** |
|----|---------|-----|---------|------|
| 1  | -19.800 | 7.4 | 1.59070 | 58.3 |
| 2  | -14.300 | 0.1 |         |      |
| 3  | 55.000  | 5.0 | 1.60840 | 58.9 |
| 4  | -35.150 | 0.1 |         |      |
| 5  | 21.740  | 9.5 | 1.59070 | 58.3 |
| 6  | -18.500 | 3.0 | 1.71736 | 29.5 |
| 7  | 41.106  |     |         |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|----------|------------|-------------|
|                | 0.0012       | 0.0028       | -0.0045      | 0.0129       | 0.1221       | 8.3    | 6%              |          |            |             |
| h 或 $\omega$ % | $L_p$        | $l'_p$       | LA'          | OSC'         | $x'_i$       | $x'_s$ | $x'_t - x'_s$   | $K_{T1}$ | $K_{T0.7}$ | $\Delta H'$ |
| 100            | -12**        | 208          | 0.096        | 0.002        | -0.91        | 0.45   | -1.36           | 0.041    | 0.020      | 0.51        |
| 70             |              |              | 0.048        | 0.001        | -0.16        | 0.26   | -0.42           | 0.033    | 0.016      | 0.20        |



编号: 08-01-067

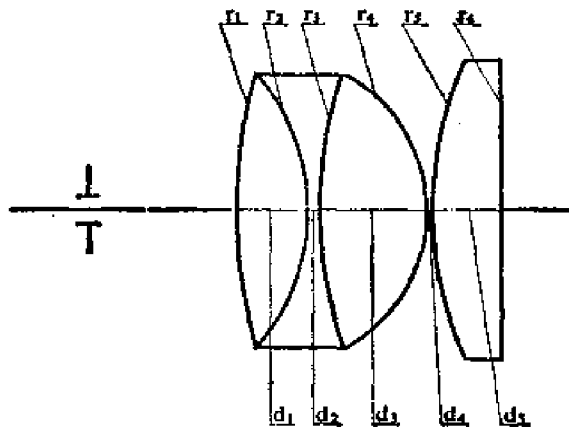
## 廉价的二组元目镜

E.F.L=99.8

B.F.L=73.9

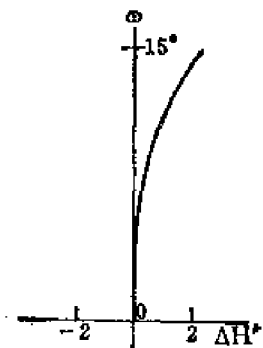
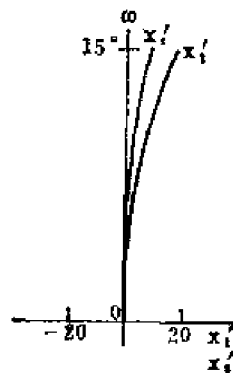
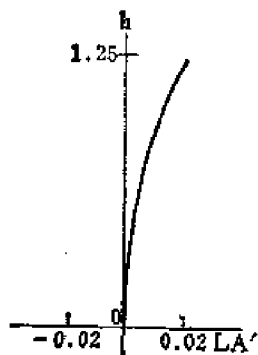
$\phi_{\text{出}}/2=1.25^{**}$

F.A. =  $\pm 15^\circ$



| 序号 | r        | d    | n      | v    |
|----|----------|------|--------|------|
| 1  | 249.9    | 30.0 | 1.5163 | 64.0 |
| 2  | -100.0   | 6.5  | 1.6477 | 33.9 |
| 3  | 200.0    | 50.0 | 1.5163 | 64.0 |
| 4  | -71.5    | 1.5  |        |      |
| 5  | 162.5    | 30.0 | 1.5163 | 64.0 |
| 6  | $\infty$ |      |        |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|----------|------------|-------------|
|                | 0            | 0.00011      | 0.00162      | 0.00063      | 0.05215      | 26.7   | 7.8%          |          |            |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | LA'          | OSC'         | $x_1'$       | $x_2'$ | $x_1' - x_2'$ | $K_{T1}$ | $K_{T0.7}$ | $\Delta H'$ |
| 100            | -66**        | 511          | 0.023        | 0.0001       | 18.6         | 7.8    | 10.8          | 0.018    | 0.009      | 2.1         |
| 70             |              |              | 0.011        | 0            | 8.9          | 3.8    | 5.1           | 0.011    | 0.003      | 0.7         |



编号: 08-01-068

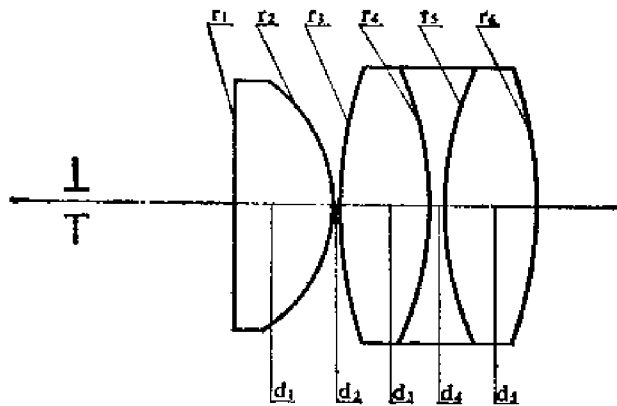
## 廉价的二组元目镜

E.F.L=99.8

B.F.L=43.63

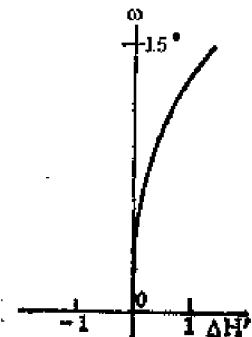
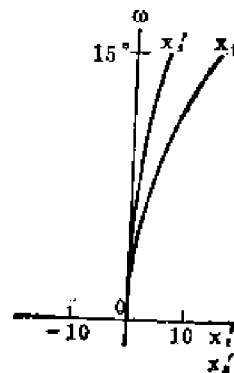
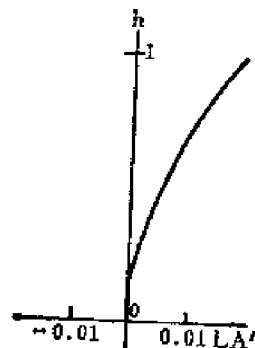
$\phi_{出}/2=1^{**}$

F.A.= $\pm 15^{**}$



| 序号 | r        | d    | n      | v    |
|----|----------|------|--------|------|
| 1  | $\infty$ | 43.5 | 1.5168 | 64.0 |
| 2  | -68.28   | 1.5  |        |      |
| 3  | 200.00   | 41.0 | 1.5163 | 64.0 |
| 4  | -150.00  | 6.5  | 1.6477 | 33.9 |
| 5  | 150.00   | 41.0 | 1.5163 | 64.0 |
| 6  | -200.00  |      |        |      |

|                |              |              |              |              |              |        |                 |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|                | 0            | 0.00005      | 0.00069      | 0.00055      | 0.02096      | 26.7   | 5.3%            |           |             |             |
| h 或 $\omega$ % | $L_p$        | $L'_p$       | LA'          | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$   | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -70**        | 1075         | 0.019        | 0.0001       | 13.2         | 6.1    | 7.1             | 0.009     | 0.004       | 1.4         |
| 70             |              |              | 0.009        | 0            | 6.4          | 3.0    | 3.4             | 0.006     | 0.003       | 0.4         |



编号: 08-01-069

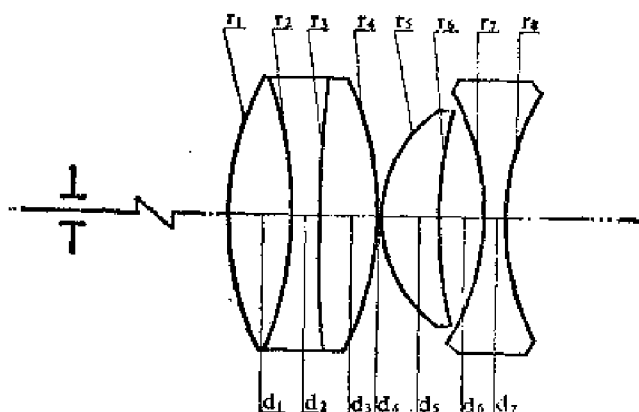
# 光学仪器的目镜

E.F.L=100

B.F.L=24.3

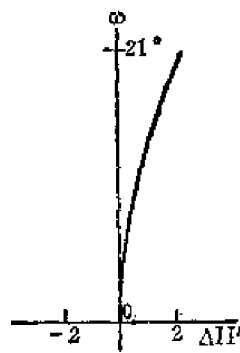
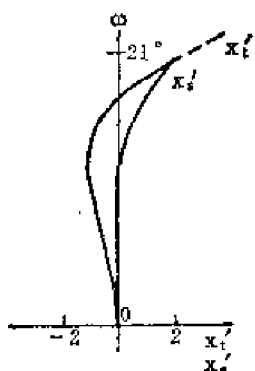
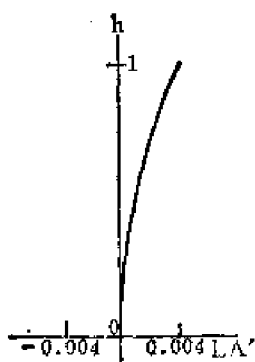
$\phi_m/2=1^{**}$

F.A.= $\pm 21^\circ$



| 序号 | r       | d     | n      | v    |
|----|---------|-------|--------|------|
| 1  | 142.70  | 28.79 | 1.6204 | 60.3 |
| 2  | -182.70 | 12.52 | 1.7283 | 28.3 |
| 3  | 938.80  | 25.03 | 1.6204 | 60.3 |
| 4  | -130.20 | 0.25  |        |      |
| 5  | 60.08   | 26.29 | 1.5163 | 64.0 |
| 6  | 200.30  | 20.03 |        |      |
| 7  | -118.90 | 10.10 | 1.7283 | 28.3 |
| 8  | 118.90  |       |        |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | Ht     | QP(1 $\omega$ ) |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | 0            | 0.00001      | 0.00009      | 0.00033      | 0.10859      | 38.3   | 5.5%            |           |             |             |
| h 或 $\omega\%$ | $L_p$        | $L'_p$       | LA'          | OSC'         | $x'_t$       | $x'_s$ | $x'_t - x'_s$   | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -137.5       | $\infty$     | 0.004        | 0            | 33.8         | 2.4    | 31.4            | 0.065     | 0.032       | 2.1         |
| 70             |              |              | 0.002        | 0            | -1.5         | 0.4    | -1.9            | 0.003     | 0.001       | 1.0         |





编号: 08-01-070

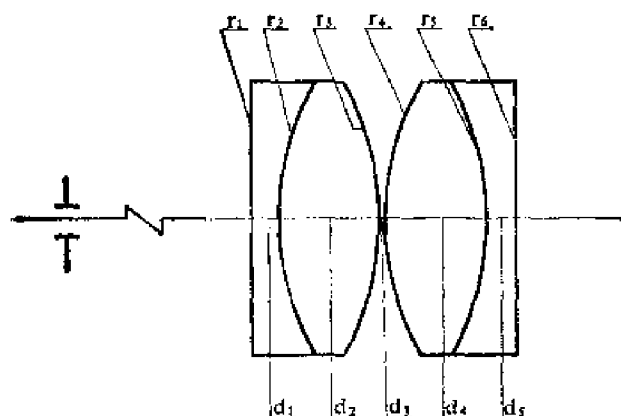
## 对 称 目 镜

E.F.L = 1

B.F.L = 0.750

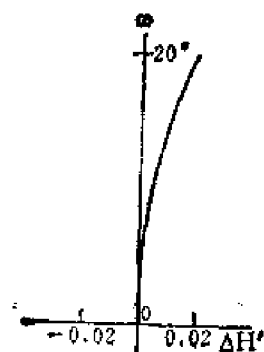
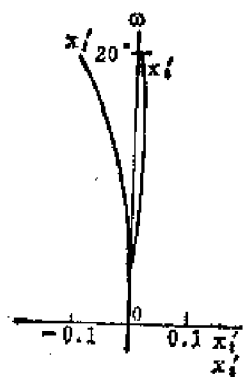
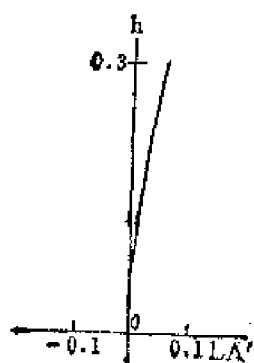
$\phi_{\text{出}}/2 = 0.3^{**}$

F.A. =  $\pm 20'^{**}$



| 序号 | r        | d     | n      | v    |
|----|----------|-------|--------|------|
| 1  | $\infty$ | 0.091 | 1.6210 | 36.2 |
| 2  | 0.868    | 0.296 | 1.5170 | 64.5 |
| 3  | -0.868   | 0.009 |        |      |
| 4  | 0.868    | 0.296 | 1.5170 | 64.5 |
| 5  | -0.868   | 0.091 | 1.6210 | 36.2 |
| 6  | $\infty$ |       |        |      |

|                |              |              |              |              |              |        |               |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HJ     | QP(100)       |           |             |             |
|                | 0.0108       | 0.0005       | -0.0044      | 0.0082       | 0.0065       | 0.36   | 5%            |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l'_0$       | LA'          | OSC'         | $x'_t$       | $x'_s$ | $x'_t - x'_s$ | $K'_{T1}$ | $K'_{f0.7}$ | $\Delta H'$ |
| 100            | -0.782**     | 30.5         | 0.065        | 0.002        | -0.10        | 0.005  | -0.105        | 0.164     | -0.037      | 0.018       |
| 70             |              |              | 0.031        | 0.001        | -0.026       | 0.007  | -0.033        | -0.021    | -0.006      | 0.007       |



编号: 08-01-071

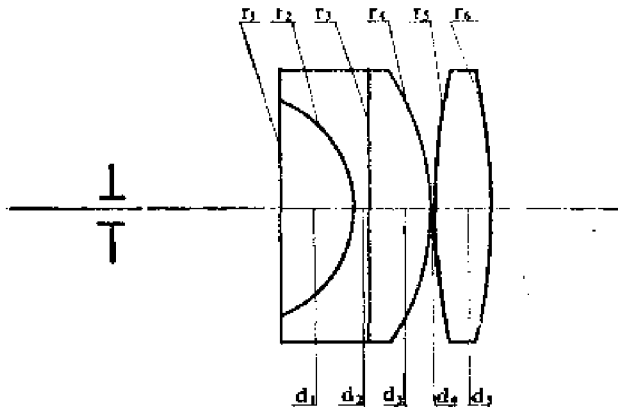
# 目 镜

E.F.L = 100

B.F.L = 95

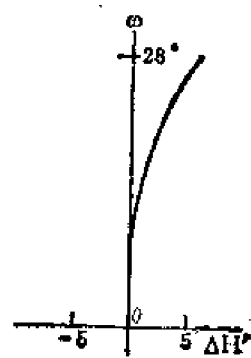
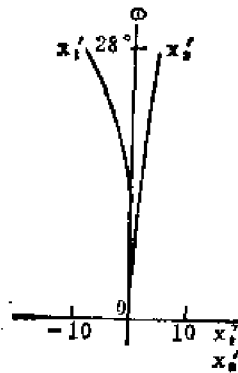
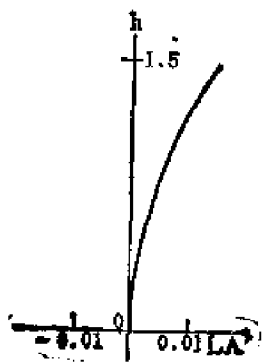
$\phi_{田}/2 = 1.5^{**}$

F.A. =  $\pm 28^{\circ}$



| 序号 | r        | d    | n      | v    |
|----|----------|------|--------|------|
| 1  | $\infty$ | 26.6 | 1.6053 | 43.6 |
| 2  | -41.5    | 5.2  | 1.7200 | 29.3 |
| 3  | $\infty$ | 20.8 | 1.6170 | 55.0 |
| 4  | -91.6    | 0.2  |        |      |
| 5  | 214.4    | 20.8 | 1.6170 | 55.0 |
| 6  | -214.4   |      |        |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|                | 0            | 0.00003      | -0.00166     | 0.00427      | 0.17139      | 53.1   | 10%           |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l'_p$       | LA'          | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$ | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -60.4        | $\infty$     | 0.015        | 0            | -9.1         | 3.6    | -12.7         | -0.018    | -0.009      | 5.4         |
| 70             |              |              | 0.007        | 0            | -1.8         | 2.2    | -4.0          | -0.002    | -0.001      | 1.8         |



编号: 08-01-072

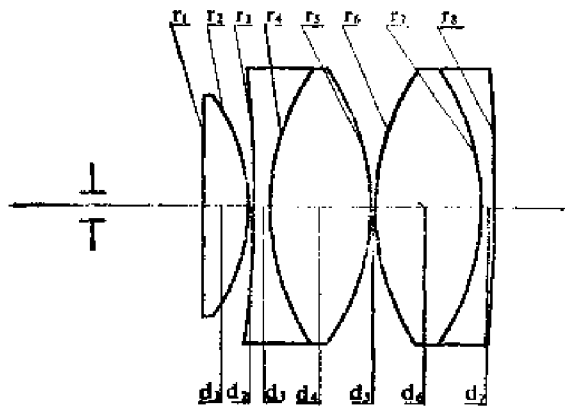
# 目 镜

E.F.L=99.8

B.F.L=47.9

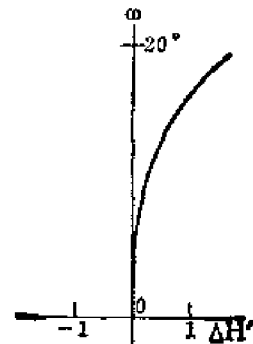
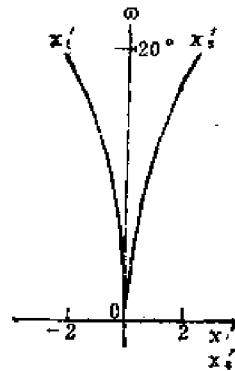
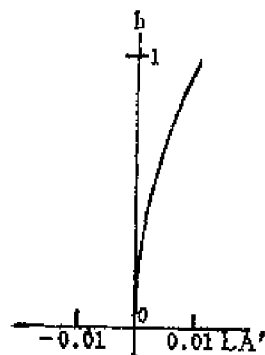
$\phi_{\text{目}}/2 = 1^{**}$

F.A. =  $\pm 20^{**}$



| 序号 | r        | d     | n      | v    |
|----|----------|-------|--------|------|
| 1  | $\infty$ | 21.16 | 1.5308 | 58.0 |
| 2  | -99.4    | 1.32  |        |      |
| 3  | -429.9   | 6.61  | 1.6489 | 33.8 |
| 4  | 129.7    | 52.91 | 1.5308 | 58.0 |
| 5  | -129.7   | 1.32  |        |      |
| 6  | 129.7    | 52.91 | 1.5308 | 58.0 |
| 7  | -129.7   | 6.61  | 1.6489 | 33.8 |
| 8  | -768.1   |       |        |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | 0            | 0.00001      | -0.00048     | 0.00102      | 0.01822      | 36.4   | 4.4%            |           |             |             |
| h 或 $\omega$ % | $I_p$        | $I'_p$       | LA'          | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$   | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -56          | 4246         | 0.010        | 0            | -2.3         | 2.4    | -4.7            | 0.0019    | 0.0010      | 1.6         |
| 70             |              |              | 0.005        | 0            | -1.1         | 1.2    | -2.3            | 0.0014    | 0.0007      | 0.5         |



编号: 08-01-073

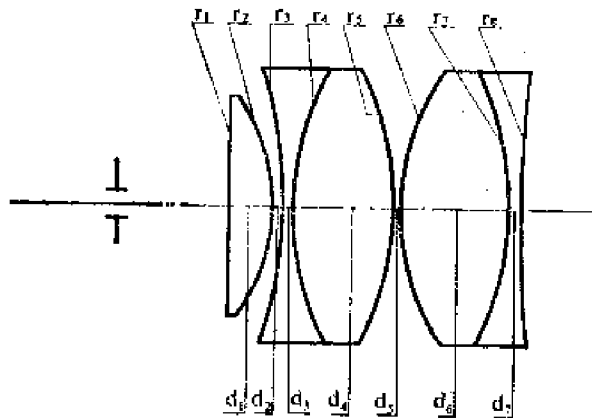
## 目 镜

E.F.L=99.8

B.F.L=48.6

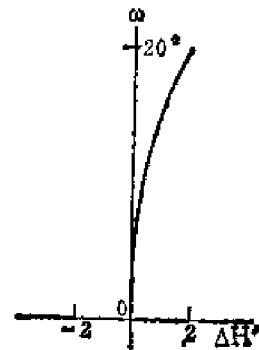
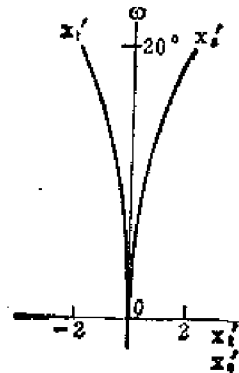
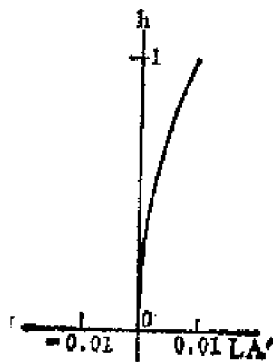
$\phi_H/2=1^{**}$

F.A. =  $\pm 20^{\circ}$  \*\*



| 序号 | r        | d     | n      | v    |
|----|----------|-------|--------|------|
| 1  | $\infty$ | 21.16 | 1.5308 | 58.0 |
| 2  | -99.2    | 1.32  |        |      |
| 3  | -313.5   | 6.61  | 1.6489 | 33.8 |
| 4  | 146.0    | 52.91 | 1.5899 | 60.8 |
| 5  | -146.0   | 1.32  |        |      |
| 6  | 130.6    | 52.91 | 1.5899 | 60.8 |
| 7  | -165.3   | 6.61  | 1.6489 | 33.8 |
| 8  | 1526.5   |       |        |      |

|                |              |              |              |              |              |        |                  |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|------------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)          |           |             |             |
|                | 0            | 0.00001      | -0.00045     | 0.00094      | 0.02274      | 36.4   | 5%               |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l'_p$       | LA'          | OSC'         | $x'_t$       | $x'_s$ | $x'_t \sim x'_s$ | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -56          | -5539        | 0.009        | 0            | -1.96        | 2.27   | -4.23            | 0.0016    | 0.0008      | 1.8         |
| 70             |              |              | 0.004        | 0            | -0.95        | 1.13   | -2.08            | 0.0011    | 0.0006      | 0.6         |



编号: 08-01-074

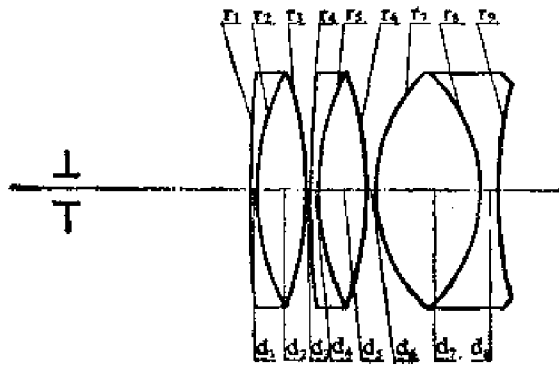
## 长工作距离目镜

E.F.L=100

B.F.L=40.8

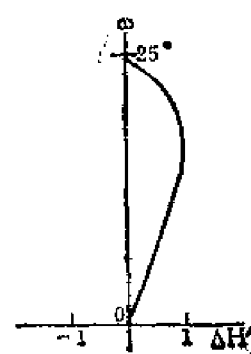
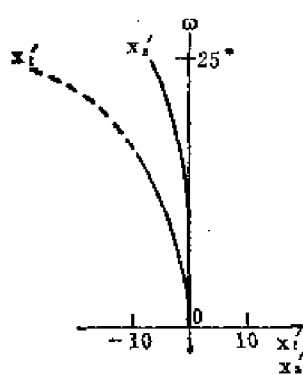
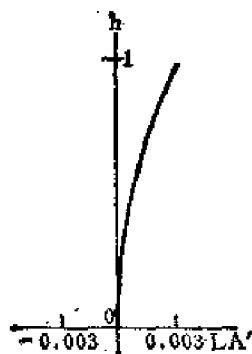
$\phi_{\text{目}}/2=1^{\circ}$

F.A.= $\pm 25^{\circ}$



| 序号 | r      | d    | n      | v    |
|----|--------|------|--------|------|
| 1  | 857.4  | 3.0  | 1.5174 | 52.2 |
| 2  | 148.2  | 24.0 | 1.5173 | 69.6 |
| 3  | -186.0 | 0.6  |        |      |
| 4  | 857.4  | 3.0  | 1.5174 | 52.2 |
| 5  | 148.2  | 24.0 | 1.5173 | 69.6 |
| 6  | -186.0 | 1.8  |        |      |
| 7  | 83.4   | 55.8 | 1.5173 | 69.6 |
| 8  | -83.4  | 7.8  | 1.6989 | 30.0 |
| 9  | 256.8  |      |        |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HJ     | QP(1 $\omega$ ) |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | 0            | -0.00001     | -0.00136     | 0.00132      | 0.08790      | 46.6   | -0.2%           |           |             |             |
| h 或 $\omega$ % | $L_P$        | $L'_P$       | LA'          | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$   | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -91.4        | $-\infty$    | 0.003        | 0            | -113.4       | -6.7   | -106.7          | -0.025    | -0.012      | -0.09       |
| 70             |              |              | 0.001        | 0            | -11.0        | -0.9   | -10.1           | -0.003    | -0.001      | 0.95        |



编号: 08-01-075

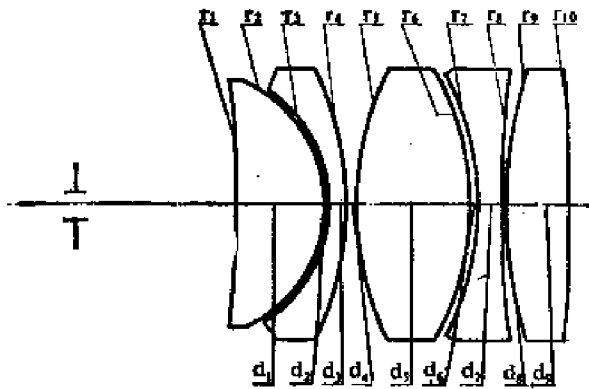
# 塑料-玻璃目镜

E.F.L=100

B.F.L=59.35

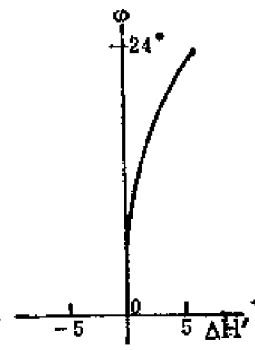
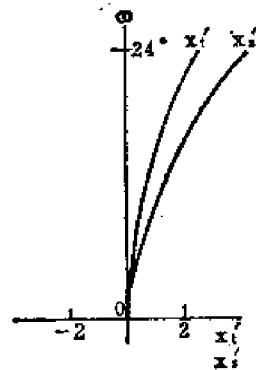
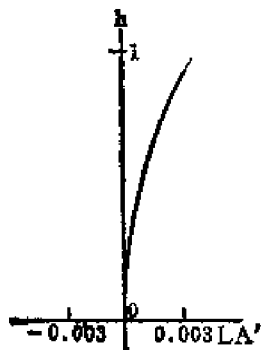
$\phi_{出}/2=1^{**}$

F.A.= $\pm 24^{\circ}$



| 序号 | r       | d      | n       | v    |
|----|---------|--------|---------|------|
| 1  | -442.44 | 29.533 | 1.49168 | 57.4 |
| 2  | -50.96  | 0.738  |         |      |
| 3  | -50.96  | 8.860  | 1.59028 | 30.9 |
| 4  | -106.74 | 1.477  |         |      |
| 5  | 107.94  | 42.144 | 1.61100 | 58.8 |
| 6  | -107.94 | 1.004  |         |      |
| 7  | -103.04 | 8.860  | 1.59028 | 30.9 |
| 8  | 427.94  | 1.476  |         |      |
| 9  | 165.58  | 21.618 | 1.49168 | 57.4 |
| 10 | -942.14 |        |         |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(10)        |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|                | 0            | 0            | -0.00037     | 0.00135      | 0.13135      | 44.5   | 14%           |           |             |             |
| h 或 $\omega\%$ | $L_p$        | $I_p'$       | $LA'$        | OSC'         | $x_1'$       | $x_2'$ | $x_1' - x_2'$ | $K_{T1}'$ | $K_{T0.7}'$ | $\Delta H'$ |
| 100            | -73.83       | 1000         | 0.003        | 0            | 2.35         | 4.44   | -2.09         | -0.002    | -0.001      | 6.3         |
| 70             |              |              | 0.001        | 0            | 1.14         | 2.20   | -1.06         | 0         | 0           | 2.0         |



编号: 08-01-076

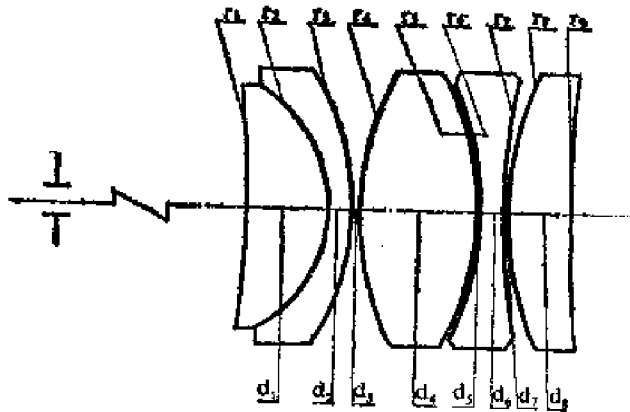
# 塑料-玻璃目镜

E.F.L=100

B.F.L=59.05

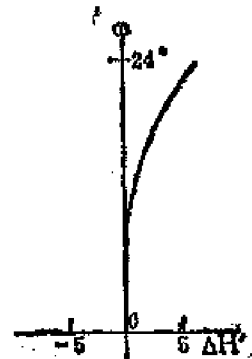
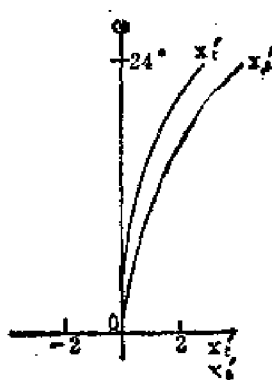
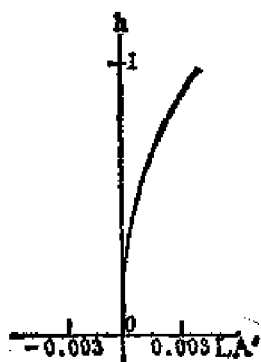
$\phi_{\text{出}}/2=1^{\circ}$

F.A.= $\pm 24^{\circ}$



| 序号 | r        | d      | n       | v    |
|----|----------|--------|---------|------|
| 1  | -292.570 | 29.220 | 1.49168 | 57.4 |
| 2  | -51.237  | 8.860  | 1.59028 | 30.9 |
| 3  | -93.124  | 1.477  |         |      |
| 4  | 106.740  | 42.203 | 1.61100 | 58.8 |
| 5  | -106.740 | 0.791  |         |      |
| 6  | -103.650 | 8.860  | 1.59028 | 30.9 |
| 7  | 250.960  | 1.477  |         |      |
| 8  | 123.820  | 21.790 | 1.49168 | 57.4 |
| 9  | 1059.800 |        |         |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | 0            | 0            | -0.0003      | 0.0012       | 0.1314       | 44.5   | 13.8%           |           |             |             |
| h 或 $\omega$ % | $L_p$        | $I_p'$       | LA'          | OSC'         | $x_t'$       | $x_s'$ | $x_t' - x_s'$   | $K_{T1}'$ | $K_{T0.7}'$ | $\Delta H'$ |
| 100            | -73.83       | 1487         | 0.003        | 0            | 2.73         | 4.27   | -1.54           | -0.0001   | 0           | 6.2         |
| 70             |              |              | 0.001        | 0            | 1.06         | 2.13   | -1.07           | -0.0001   | 0           | 2.0         |



编号: 08-01-077

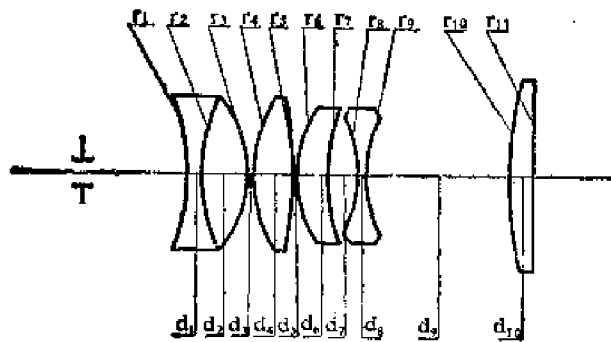
# 五组元显微镜目镜

E.F.L = 1

B.F.L = -1.15

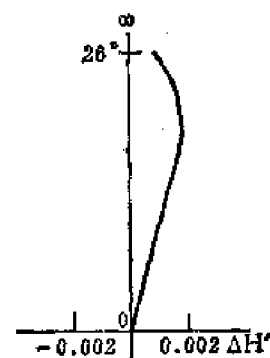
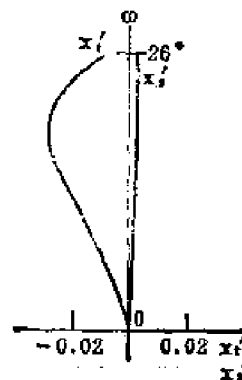
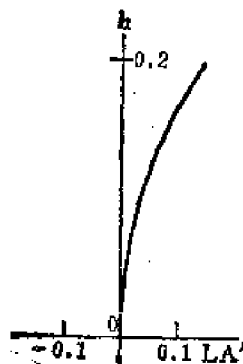
$\phi_{10}/2 = 0.2^{**}$

F.A. =  $\pm 26^\circ$



| 序号 | r        | d      | n       | v     |
|----|----------|--------|---------|-------|
| 1  | -1.4270  | 0.1005 | 1.78472 | 25.76 |
| 2  | 1.4776   | 0.3258 | 1.69680 | 56.15 |
| 3  | -0.8693  | 0.0040 |         |       |
| 4  | 1.0134   | 0.3075 | 1.73350 | 51.65 |
| 5  | -3.2270  | 0.0047 |         |       |
| 6  | 0.8693   | 0.2220 | 1.73350 | 51.65 |
| 7  | 1.3295   | 0.1751 |         |       |
| 8  | -1.0433  | 0.0796 | 1.78472 | 25.76 |
| 9  | 1.0433   | 1.0339 |         |       |
| 10 | 2.4548   | 0.1592 | 1.69680 | 56.15 |
| 11 | $\infty$ |        |         |       |

|                |              |              |              |              |              |        |                 |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|                | 0.0088       | -0.0026      | -0.0006      | 0.0017       | 0.0081       | 0.48   | 0.25%           |           |             |             |
| h 或 $\omega\%$ | $L_p$        | $L'_p$       | $LA'$        | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$   | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -0.742       | 19.8         | 0.13         | -0.015       | -0.009       | 0.002  | -0.011          | 0.238     | 0.125       | 0.001       |
| 70             |              |              | 0.06         | -0.007       | -0.030       | 0.0009 | -0.0309         | 0.001     | -0.001      | 0.002       |





编号: 08-01-078

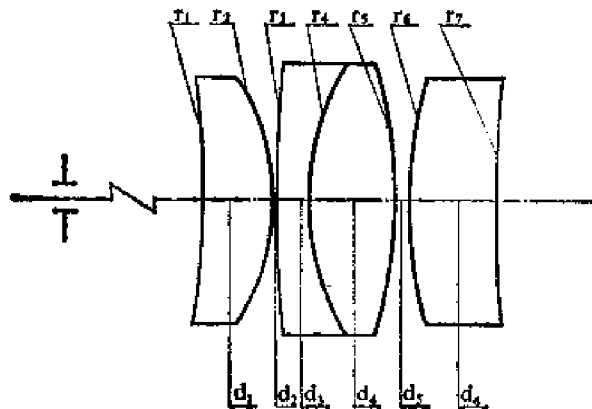
# 长工作距离目镜

E.F.L = 1

B.F.L = 0.676

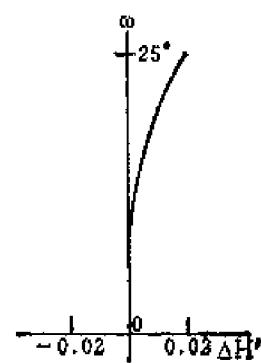
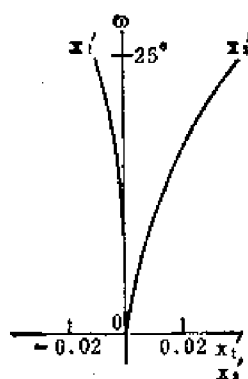
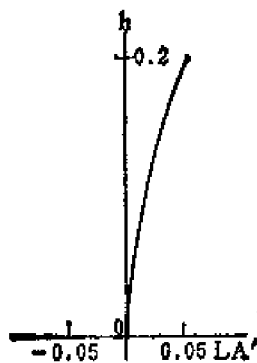
$\phi_{\text{出}}/2 = 0.2^{\circ}$

F.A. =  $\pm 25^{\circ}$



| 序号 | r       | d      | n       | v     |
|----|---------|--------|---------|-------|
| 1  | -3.0924 | 0.2408 | 1.58800 | 61.19 |
| 2  | -0.8399 | 0.0040 |         |       |
| 3  | 6.7853  | 0.1204 | 1.78600 | 25.52 |
| 4  | 0.9932  | 0.3090 | 1.58800 | 61.19 |
| 5  | -2.1120 | 0.0040 |         |       |
| 6  | 1.4710  | 0.3210 | 1.58800 | 61.19 |
| 7  | 6.7853  |        |         |       |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | 0.0044       | 0.0032       | -0.0021      | 0.0059       | 0.0097       | 0.46   | 3.9%            |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | $LA'$        | OSC'         | $x_1'$       | $x_2'$ | $x_1' - x_2'$   | $K_{T1}'$ | $K_{T0.7}'$ | $\Delta H'$ |
| 100            | -0.773       | 13.8         | 0.057        | 0.019        | -0.01        | 0.04   | -0.05           | 0.027     | 0.012       | 0.018       |
| 70             |              |              | 0.028        | 0.009        | -0.003       | 0.022  | -0.025          | 0.018     | 0.008       | 0.006       |



编号: 08-01-079

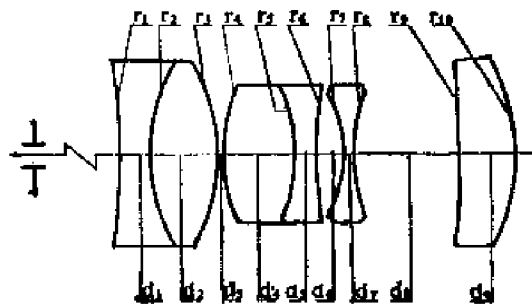
## 四组元显微镜目镜

E.F.L=39.86

B.F.L=-15.9

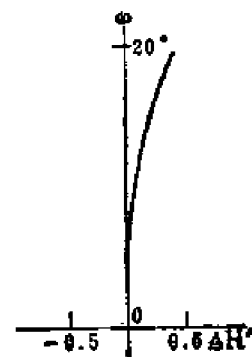
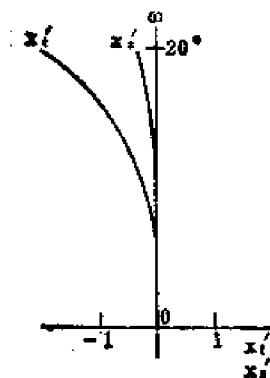
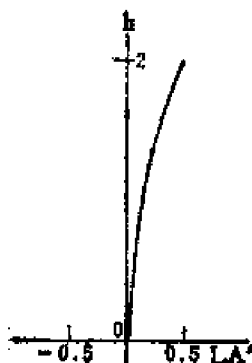
$\phi_{\text{出}}/2=2^{\circ}$

F.A.= $\pm 20^{\circ}$



| 序号 | r       | d      | n       | v     |
|----|---------|--------|---------|-------|
| 1  | -86.40  | 4.000  | 1.60140 | 38.23 |
| 2  | 25.03   | 10.107 | 1.73350 | 51.65 |
| 3  | -25.03  | 0.200  |         |       |
| 4  | 25.03   | 10.107 | 1.73350 | 51.65 |
| 5  | -25.03  | 4.000  | 1.60140 | 38.23 |
| 6  | 86.40   | 3.074  |         |       |
| 7  | -17.00  | 1.500  | 1.74077 | 27.66 |
| 8  | 28.72   | 15.342 |         |       |
| 9  | -330.03 | 8.000  | 1.69780 | 56.15 |
| 10 | -26.47  |        |         |       |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\infty$ ) |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | 0.0025       | 0.0016       | -0.0014      | 0.0017       | 0.0694       | 14.5   | 2.9%            |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l'_p$       | LA'          | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$   | $K'_{F1}$ | $K'_{F2.7}$ | $\Delta H'$ |
| 100            | -18.64       | 504          | 0.49         | 0.0011       | -1.99        | -0.25  | -1.74           | 0.125     | 0.056       | 0.43        |
| 70             |              |              | 0.24         | 0.0005       | -0.58        | -0.04  | -0.54           | 0.048     | 0.022       | 0.19        |



编号: 08-01-080

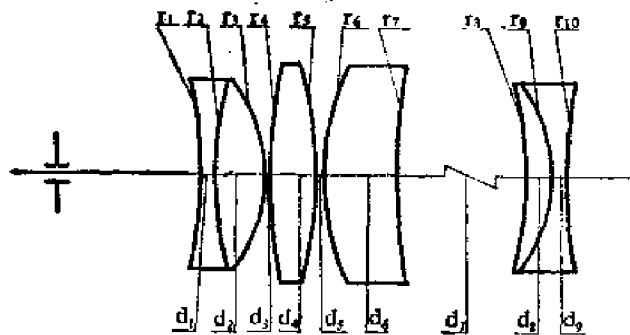
# 四组元显微镜目镜

E.F.L = 1

B.F.L = -1.59

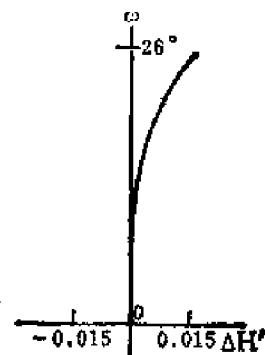
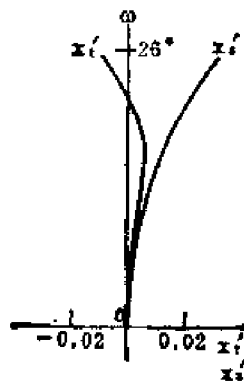
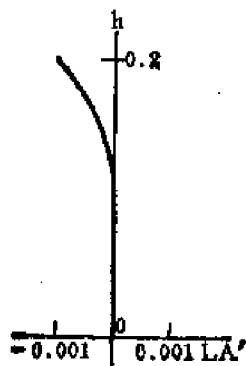
$\phi_H/2 = 0.2^{**}$

F.A. =  $\pm 26^\circ$



| 序号 | r       | d      | n       | v    |
|----|---------|--------|---------|------|
| 1  | -3.5762 | 0.1117 | 1.78472 | 25.8 |
| 2  | 2.4344  | 0.3421 | 1.62090 | 60.3 |
| 3  | -1.1342 | 0.0310 |         |      |
| 4  | 9.1404  | 0.3064 | 1.62090 | 60.3 |
| 5  | -2.7550 | 0.0310 |         |      |
| 6  | 1.9143  | 0.5283 | 1.62090 | 60.3 |
| 7  | 4.2864  | 2.5667 |         |      |
| 8  | -2.3750 | 0.1551 | 1.78472 | 25.8 |
| 9  | -1.1829 | 0.1117 | 1.51742 | 52.2 |
| 10 | 13.3015 |        |         |      |

|                |              |              |              |              |              |        |               |           |             |              |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|--------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |           |             |              |
|                | 0.00003      | 0.00238      | -0.00029     | 0.00338      | 0.00931      | 0.48   | 2.9%          |           |             |              |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | $LA'$        | $OSC'$       | $x_i'$       | $x_s'$ | $x_i' - x_s'$ | $K_{T1}'$ | $K_{T0.7}'$ | $\Delta H''$ |
| 100            | -1.023       | 30.9         | -0.0009      | 0.012        | -0.011       | 0.031  | -0.042        | 0.008     | 0.004       | 0.014        |
| 70             |              |              | -0.0001      | 0.006        | 0.007        | 0.016  | -0.009        | 0.009     | 0.004       | 0.005        |



编号: 08-01-081

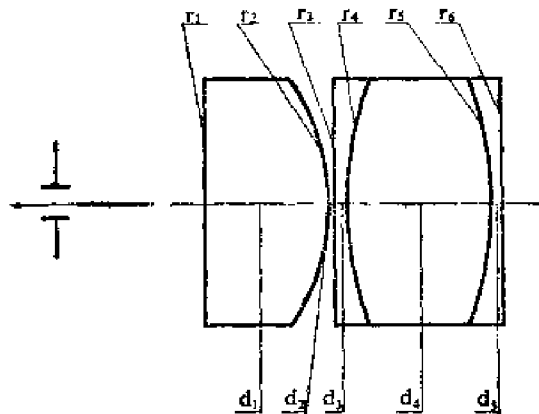
# 目 镜

E.F.L=50.47

B.F.L=32.73

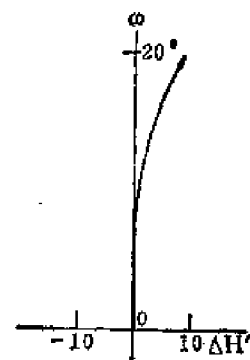
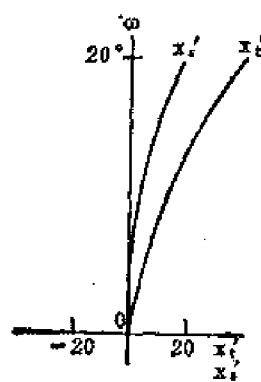
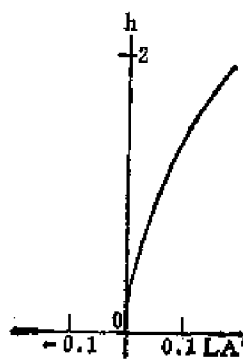
$\phi_{\text{出}}/2=2^{\circ}$

F.A.= $\pm 20^{\circ}$



| 序号 | r        | d  | n      | v    |
|----|----------|----|--------|------|
| 1  | $\infty$ | 22 | 1.7880 | 50.4 |
| 2  | -40      | 1  |        |      |
| 3  | $\infty$ | 2  | 1.7842 | 57.0 |
| 4  | 60       | 26 | 1.7880 | 50.4 |
| 5  | -60      | 2  | 1.7842 | 57.0 |
| 6  | $\infty$ |    |        |      |

|                |              |              |              |              |              |        |               |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | $QP(1\omega)$ |           |             |             |
|                | 0.0006       | 0.0053       | 0.0462       | 0.0059       | 0.4988       | 18.4   | 46%           |           |             |             |
| h 或 $\omega$ % | $I_p$        | $I'_p$       | LA'          | OSC'         | $x'_t$       | $x'_s$ | $x'_t - x'_s$ | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -57.15       | 166          | 0.192        | 0.003        | 40.4         | 17.9   | 22.5          | 0.856     | 0.416       | 8.6         |
| 70             |              |              | 0.036        | 0.001        | 20.8         | 8.1    | 12.7          | 0.240     | 0.119       | 2.4         |



编号: 08-01-082

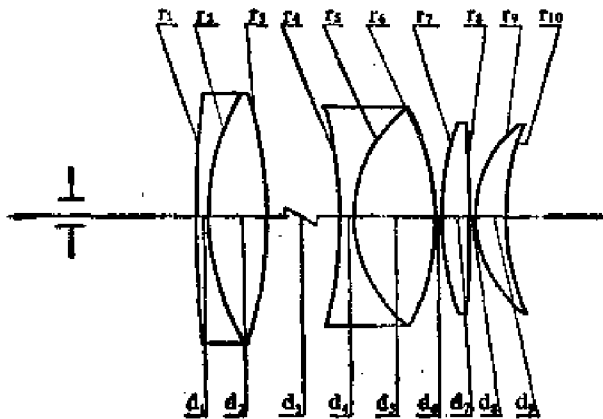
## 目 镜

E.F.L=25.66

B.F.L=10.5

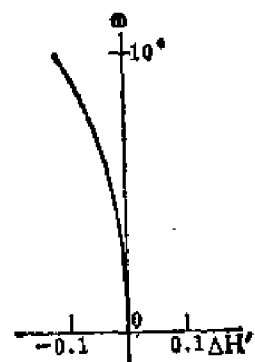
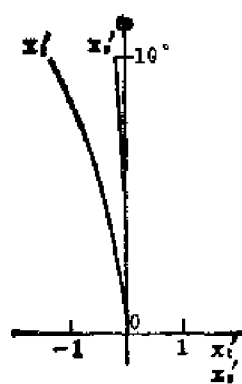
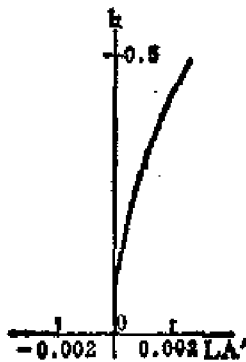
$\phi_{\text{出}}/2=0.5$

F.A. =  $\pm 10''$



| 序号 | r      | d    | n      | v    |
|----|--------|------|--------|------|
| 1  | 161.0  | 1.5  | 1.6204 | 60.3 |
| 2  | 30.0   | 6.5  | 1.6259 | 35.6 |
| 3  | -48.7  | 22.0 |        |      |
| 4  | -51.9  | 1.8  | 1.7174 | 29.5 |
| 5  | 16.9   | 9.8  | 1.5891 | 61.2 |
| 6  | -30.7  | 0.3  |        |      |
| 7  | 30.7   | 3.5  | 1.5891 | 61.2 |
| 8  | -240.3 | 0.3  |        |      |
| 9  | 15.0   | 3.5  | 1.5891 | 61.2 |
| 10 | 28.8   |      |        |      |

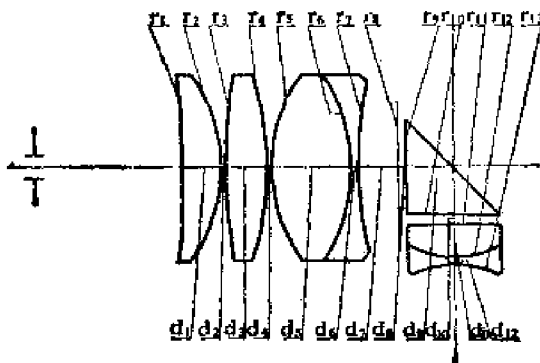
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | 0            | 0            | -0.0003      | 0.0002       | -0.0038      | 4.5    | -3%             |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l'_p$       | LA'          | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$   | $K'_{f1}$ | $K'_{f0.7}$ | $\Delta H'$ |
| 100            | -14.6        | 30.1         | 0.002        | 0            | -1.36        | -0.15  | -1.21           | -0.0007   | -0.0003     | -0.13       |
| 70             |              |              | 0.001        | 0            | -0.58        | -0.06  | -0.52           | -0.0002   | -0.0001     | -0.04       |



编号: 08-01-083

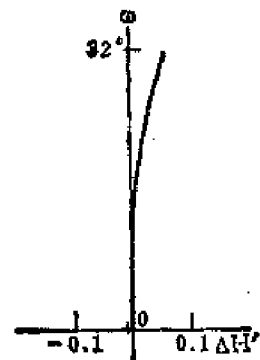
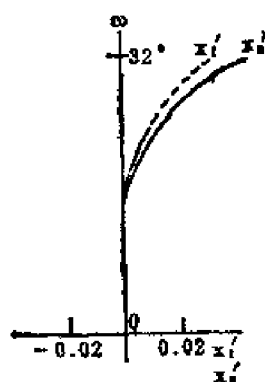
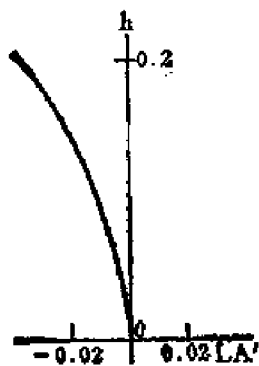
# 广角目镜

E.F.L = 1 英寸    B.F.L = -0.93     $\phi_{\omega}/2 = 0.2^{**}$     F.A. =  $\pm 32^{\circ}$



| 序号 | r        | d     | n     | v    |
|----|----------|-------|-------|------|
| 1  | -17.580  | 0.470 | 1.620 | 60.3 |
| 2  | -1.969   | 0.011 |       |      |
| 3  | 7.859    | 0.486 | 1.620 | 60.3 |
| 4  | -3.317   | 0.011 |       |      |
| 5  | 2.110    | 0.945 | 1.620 | 60.3 |
| 6  | -2.110   | 0.107 | 1.751 | 27.8 |
| 7  | 3.881    | 0.465 |       |      |
| 8  | $\infty$ | 0.090 |       |      |
| 9  | $\infty$ | 1.744 | 1.649 | 33.8 |
| 10 | $\infty$ | 0.048 |       |      |
| 11 | 5.634    | 0.412 | 1.751 | 27.8 |
| 12 | -1.245   | 0.097 | 1.620 | 60.3 |
| 13 | 1.146    |       |       |      |

|                |              |              |              |              |              |        |               |                 |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     |               | QP(1 $\omega$ ) |             |             |
|                | -0.0031      | 0.0059       | -0.0041      | 0.0025       | 0.0407       | 0.62   |               | 11%             |             |             |
| h 或 $\omega$ % | $L_p$        | $L'_p$       | LA'          | OSC'         | $x'_i$       | $x'_s$ | $x'_i - x'_s$ | $K'_{T1}$       | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -1.786       | 6.1          | -0.04        | 0.025        | 0.14         | 0.042  | 0.098         | 0.033           | 0.017       | 0.072       |
| 70             |              |              | -0.02        | 0.012        | 0.006        | 0.008  | -0.002        | 0.025           | 0.012       | 0.024       |



编号: 08-01-084

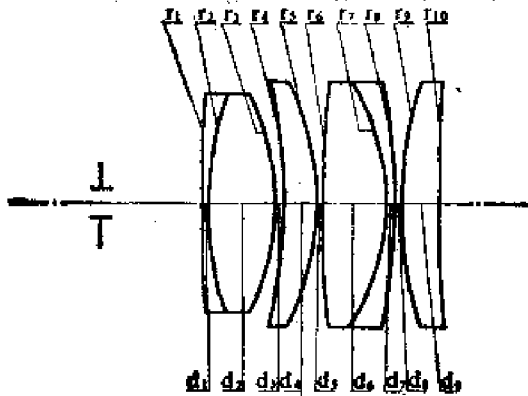
# 广角目镜

E.F.L=100

B.F.L=61.7

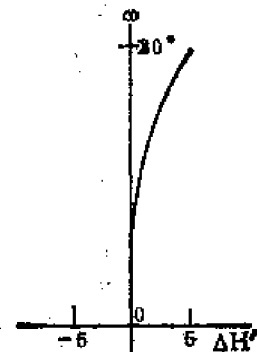
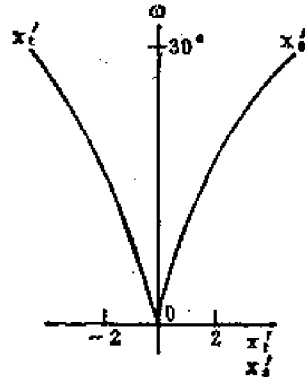
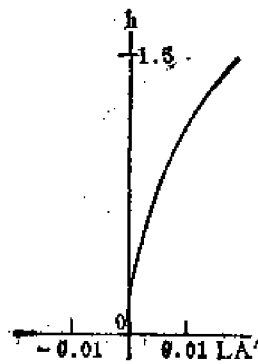
$\phi_m/2=1.5^{**}$

F.A.= $\pm 80^{**}$



| 序号 | r        | d     | n       | v    |
|----|----------|-------|---------|------|
| 1  | 1371.542 | 4.76  | 1.80518 | 25.5 |
| 2  | 216.294  | 40.46 | 1.62240 | 56.9 |
| 3  | -150.440 | 0.48  |         |      |
| 4  | -471.311 | 20.47 | 1.64000 | 60.2 |
| 5  | -154.867 | 0.48  |         |      |
| 6  | 580.501  | 37.13 | 1.62041 | 60.3 |
| 7  | -142.419 | 5.71  | 1.80518 | 25.5 |
| 8  | -405.552 | 0.48  |         |      |
| 9  | 214.200  | 23.80 | 1.62041 | 60.3 |
| 10 | 1190.000 |       |         |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | 0            | 0.00006      | -0.00281     | 0.00529      | 0.19557      | 57.7   | 9%              |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l'_p$       | LA'          | OSC'         | $x'_i$       | $x'_e$ | $x'_i - x'_e$   | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -60**        | 1689         | 0.019        | 0            | -5.2         | 5.1    | -10.3           | 0.005     | 0.002       | 5.2         |
| 70             |              |              | 0.009        | 0            | -2.7         | 2.4    | -5.1            | 0.004     | 0.002       | 1.7         |



编号: 08-01-085

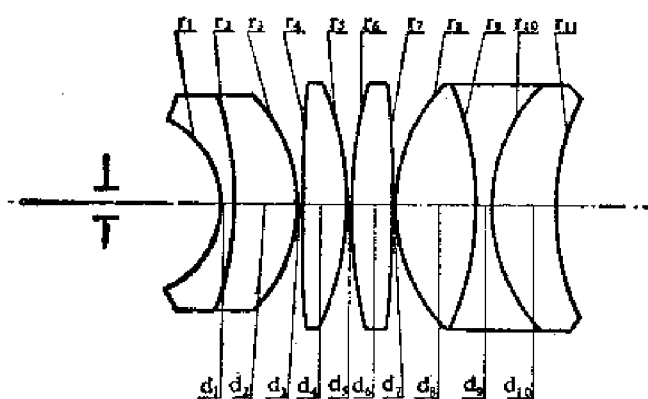
# 30<sup>x</sup> 放 大 镜

E.F.L=0.99

B.F.L=0.468

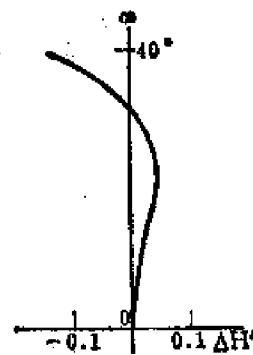
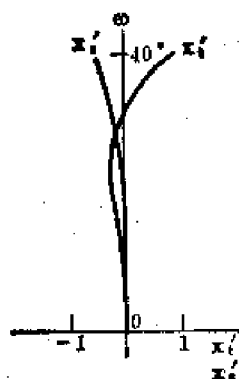
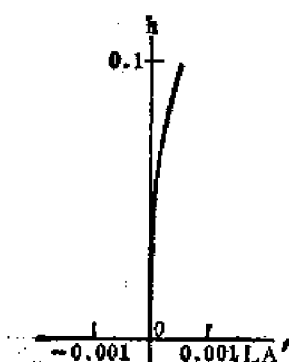
$\phi_{\text{出}}/2=0.1^{\circ}$

F.A. =  $\pm 40^{\circ}$



| 序号 | r      | d     | n     | v    |
|----|--------|-------|-------|------|
| 1  | -0.659 | 0.098 | 1.857 | 32.0 |
| 2  | -2.673 | 0.490 | 1.792 | 50.2 |
| 3  | -1.121 | 0.012 |       |      |
| 4  | 10.850 | 0.300 | 1.694 | 54.6 |
| 5  | -2.196 | 0.012 |       |      |
| 6  | 3.720  | 0.300 | 1.694 | 54.6 |
| 7  | -6.468 | 0.012 |       |      |
| 8  | 1.324  | 0.564 | 1.623 | 60.1 |
| 9  | -2.279 | 0.110 | 1.768 | 26.8 |
| 10 | 1.293  | 0.459 | 1.623 | 60.1 |
| 11 | 1.719  |       |       |      |

|       |              |              |              |              |              |        |               |           |             |             |
|-------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|       | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |           |             |             |
|       | 0.00001      | -0.00004     | -0.00104     | 0.00073      | 0.06684      | 0.83   | -17%          |           |             |             |
| h 或 % | $L_p$        | $l'_p$       | $LA'$        | OSC'         | $x'_t$       | $x'_s$ | $x'_t - x'_s$ | $K'_{L1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100   | -0.85        | 3.82         | 0.0005       | -0.0002      | 0.94         | -0.47  | 1.41          | 0.531     | -0.042      | -0.14       |
| 70    |              |              | 0.0002       | -0.0001      | -0.17        | -0.02  | -0.15         | -0.002    | -0.001      | 0.04        |





编号: 08-01-086

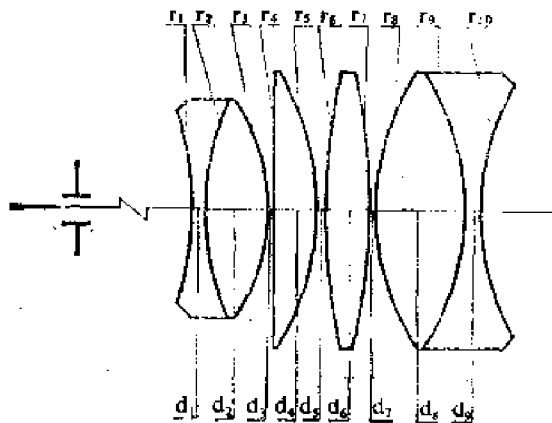
# 广角目镜

E.F.L = 1 英寸

B.F.L = 0.326

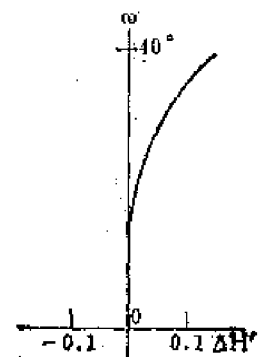
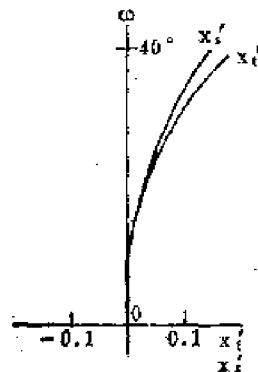
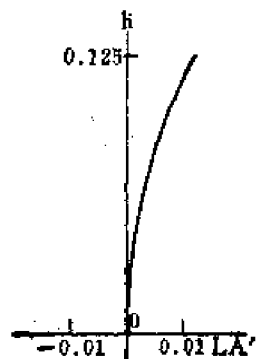
$\phi_{IR}/2 = 0.125^{**}$

F.A. =  $\pm 40^\circ$



| 序号 | r        | d     | n     | v    |
|----|----------|-------|-------|------|
| 1  | -2.808   | 0.107 | 1.619 | 33.8 |
| 2  | 2.018    | 0.461 | 1.620 | 60.3 |
| 3  | -1.316   | 0.009 |       |      |
| 4  | $\infty$ | 0.399 | 1.620 | 60.3 |
| 5  | -1.875   | 0.009 |       |      |
| 6  | 4.786    | 0.337 | 1.620 | 60.3 |
| 7  | -4.786   | 0.009 |       |      |
| 8  | 1.875    | 0.639 | 1.620 | 60.3 |
| 9  | -1.875   | 0.133 | 1.619 | 33.8 |
| 10 | 1.875    |       |       |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|                | 0.00038      | 0.00123      | -0.00035     | 0.00541      | 0.05268      | 0.84   | 17.9%         |           |             |             |
| h 或 $\omega\%$ | $L_p$        | $l'_p$       | $LA'$        | OSC'         | $x'_1$       | $x'_4$ | $x'_1 - x'_4$ | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -0.8**       | 4.4          | 0.012        | 0.005        | 0.17         | 0.14   | 0.03          | 0.0077    | 0.0039      | 0.15        |
| 70             |              |              | 0.006        | 0.003        | 0.07         | 0.06   | 0.01          | 0.0082    | 0.0041      | 0.04        |



编号: 08-01-087

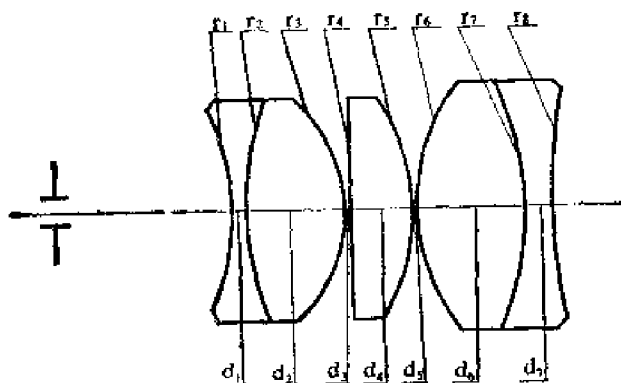
## 双目望远镜目镜

E.F.L=28.26

B.F.L=14.22

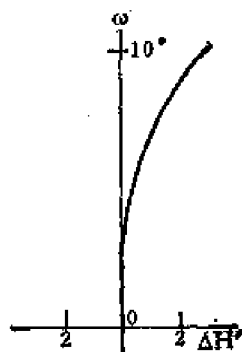
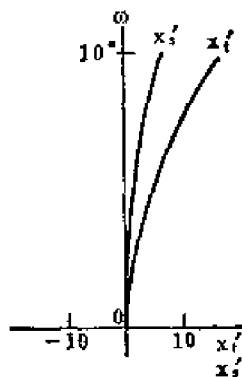
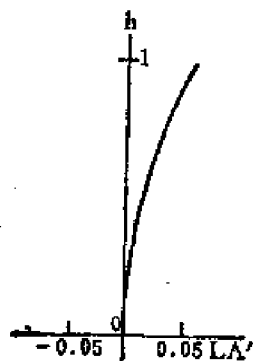
$\phi_H/2 = 1^{\circ} 10'$

F.A. =  $\pm 10^{\circ}$



| 序号 | r        | d     | n     | v    |
|----|----------|-------|-------|------|
| 1  | -34.82   | 2.00  | 1.689 | 30.9 |
| 2  | 45.10    | 14.50 | 1.517 | 64.5 |
| 3  | -21.23   | 0.40  |       |      |
| 4  | $\infty$ | 8.77  | 1.517 | 64.5 |
| 5  | -31.87   | 0.40  |       |      |
| 6  | 31.33    | 15.11 | 1.611 | 58.8 |
| 7  | -44.41   | 4.19  | 1.689 | 30.9 |
| 8  | 77.57    |       |       |      |

|                |              |              |              |              |              |        |               |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |           |             |             |
|                | 0.0002       | 0.0021       | 0.0210       | 0.0006       | 0.2182       | 4.1    | 74%           |           |             |             |
| h 或 $\omega$ % | $L_p$        | $L'_p$       | LA'          | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$ | $K'_{f1}$ | $K'_{f0.7}$ | $\Delta H'$ |
| 100            | -63.97       | 24.2         | 0.05         | 0.006        | 16.6         | 6.3    | 10.3          | 0.158     | 0.078       | 3.07        |
| 70             |              |              | 0.02         | 0.003        | 8.5          | 3.0    | 5.5           | 0.076     | 0.038       | 0.97        |



编号: 08-01-088

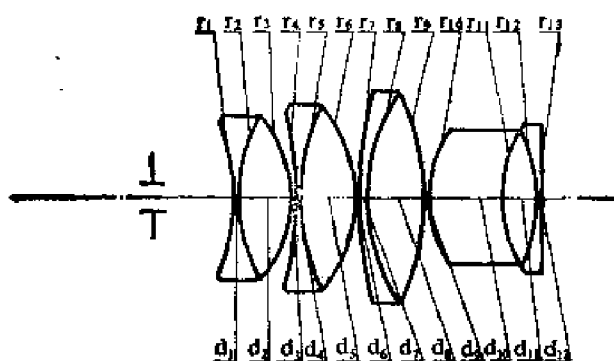
# 广角目镜

E.F.L=1

B.F.L=0.088

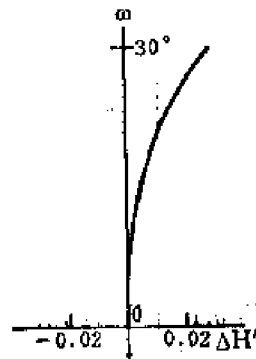
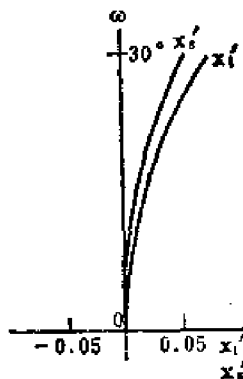
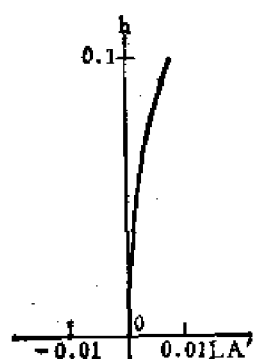
$\phi_{\text{出}}/2=0.1^{\circ}$

F.A.= $\pm 30^{\circ}$



| 序号 | r        | d     | n       | v    |
|----|----------|-------|---------|------|
| 1  | -1.873   | 0.044 | 1.65336 | 33.7 |
| 2  | 1.951    | 0.500 | 1.58867 | 61.2 |
| 3  | -1.295   | 0.001 |         |      |
| 4  | -3.919   | 0.044 | 1.65336 | 33.7 |
| 5  | 2.511    | 0.563 | 1.58867 | 61.2 |
| 6  | -1.521   | 0.001 |         |      |
| 7  | 4.177    | 0.050 | 1.65336 | 33.7 |
| 8  | 1.937    | 0.619 | 1.58867 | 61.2 |
| 9  | -2.403   | 0.001 |         |      |
| 10 | 1.293    | 0.754 | 1.62344 | 56.2 |
| 11 | 1.418    | 0.314 |         |      |
| 12 | -1.800   | 0.050 | 1.58867 | 61.2 |
| 13 | $\infty$ |       |         |      |

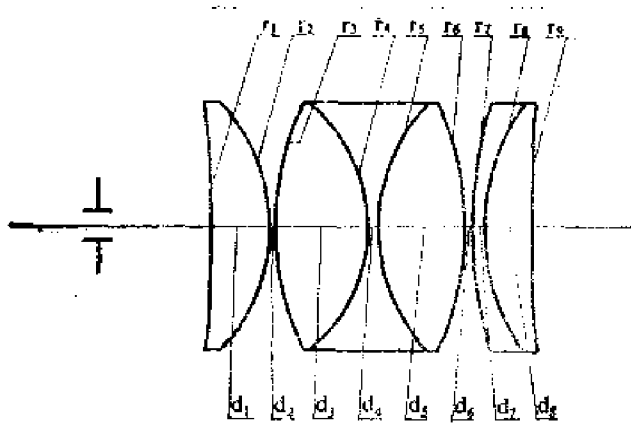
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|----------|------------|-------------|
|                | 0.00015      | 0.00052      | 0.00023      | 0.00084      | 0.00971      | 0.57   | 4.9%            |          |            |             |
| h 或 $\omega$ % | $L_p$        | $i_p$        | $LA'$        | $OSC'$       | $x_1'$       | $x_2'$ | $x_1' - x_2'$   | $K_{T1}$ | $K_{T0.7}$ | $\Delta H'$ |
| 100            | -0.8**       | 4.7          | 0.007        | 0.004        | 0.075        | 0.047  | 0.028           | 0.007    | 0.003      | 0.028       |
| 70             |              |              | 0.003        | 0.002        | 0.035        | 0.023  | 0.012           | 0.005    | 0.002      | 0.012       |



编号: 08-01-089

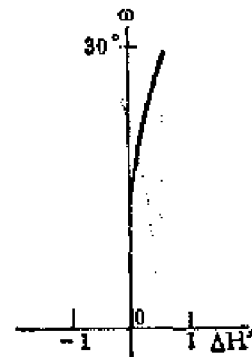
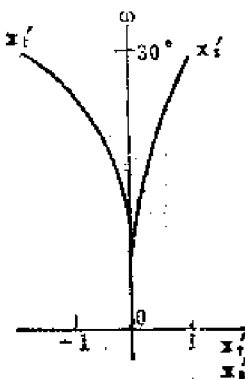
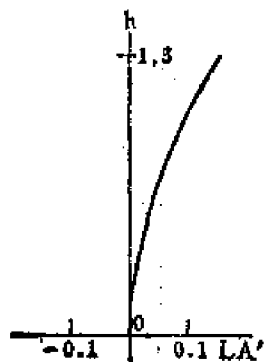
# 广角目镜

E.F.L=14.78      B.F.L=4.18       $\phi_H/2=1.5$       F.A.<sub>0</sub>=±30°



| 序号 | r      | d   | n      | v    |
|----|--------|-----|--------|------|
| 1  | -82.86 | 4.2 | 1.6444 | 35.7 |
| 2  | -13.07 | 0.1 |        |      |
| 3  | 20.73  | 6.6 | 1.5095 | 59.4 |
| 4  | -11.64 | 0.9 | 1.6734 | 32.0 |
| 5  | 12.84  | 6.6 | 1.5095 | 59.4 |
| 6  | -19.26 | 0.1 |        |      |
| 7  | 31.70  | 1.0 | 1.6235 | 39.1 |
| 8  | 15.73  | 3.3 | 1.5660 | 42.9 |
| 9  | 131.70 |     |        |      |

|                |              |              |              |              |              |        |               |                 |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | Hl     |               | QP(1 $\omega$ ) |             |             |
|                | 0.0033       | 0.0029       | -0.0160      | 0.0422       | 0.2014       | 8.5    |               | 8%              |             |             |
| h 或 $\omega$ % | $L_p$        | $i_p'$       | LA'          | OSC'         | $x_i'$       | $x_o'$ | $x_i' - x_o'$ | $K_{T1}'$       | $K_{T0.7}'$ | $\Delta H'$ |
| 100            | -8           | -519         | 0.163        | 0.0017       | -1.8         | 0.9    | -2.7          | -0.015          | -0.007      | 0.68        |
| 70             |              |              | 0.081        | 0.0008       | -0.29        | 0.50   | -0.79         | 0.019           | 0.009       | 0.26        |



编号: 08-01-090

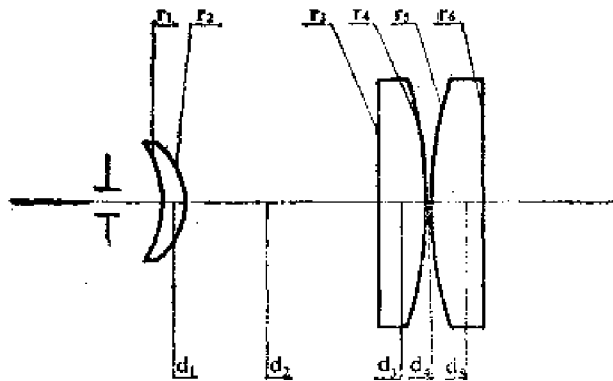
# 适用于目镜和物镜的光学系统

E.F.L=100

B.F.L=3.7

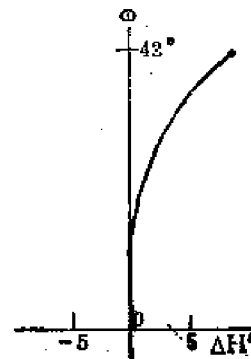
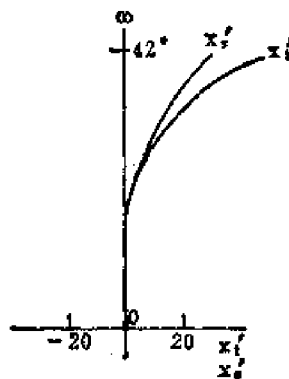
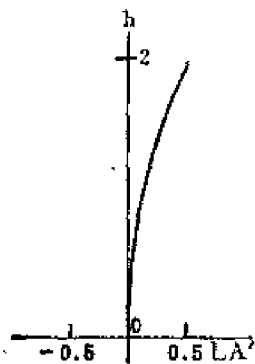
$\phi_{ik}/2=2^{**}$

F.A.= $\pm 42^\circ$



| 序号 | r        | d    | n     | v    |
|----|----------|------|-------|------|
| 1  | -50.0    | 11.0 | 1.638 | 55.5 |
| 2  | -32.0    | 84.7 |       |      |
| 3  | $\infty$ | 23.6 | 1.520 | 62.0 |
| 4  | -185.7   | 0.4  |       |      |
| 5  | 185.7    | 23.6 | 1.520 | 62.0 |
| 6  | $\infty$ |      |       |      |

|                |              |              |              |              |              |        |               |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(10)        |           |             |             |
|                | 0.0004       | 0.0021       | -0.0024      | 0.0261       | 0.4769       | 90.3   | 8.8%          |           |             |             |
| h 或 $\omega\%$ | $L_p$        | $l_p$        | LA'          | OSC'         | $x'_t$       | $x'_s$ | $x'_t - x'_s$ | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -24**        | -975         | 0.508        | 0.0006       | 50.9         | 29.0   | 21.9          | 0.115     | 0.057       | 7.9         |
| 70             |              |              | 0.253        | 0.0003       | 12.7         | 11.6   | 1.1           | 0.088     | 0.044       | 2.5         |



编号: 08-01-091

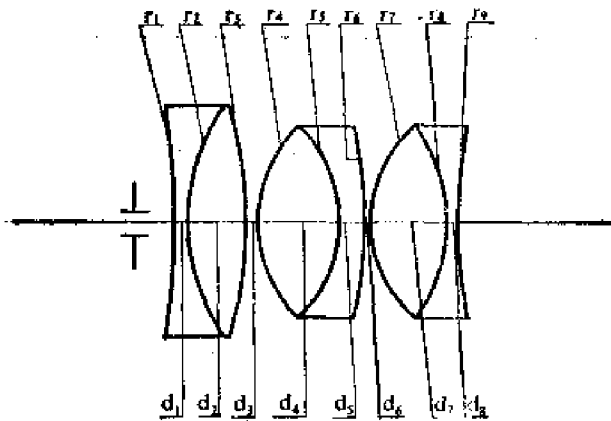
# 广角大孔径目镜

E. F. L = 1

B. F. L = 0.286

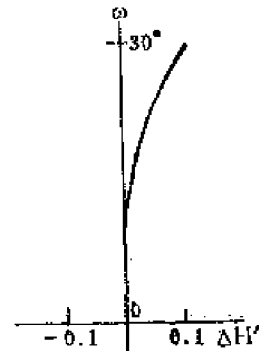
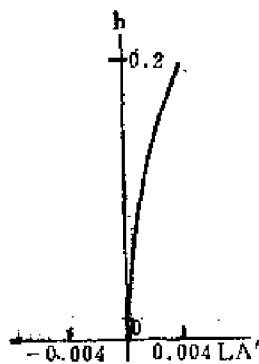
$\phi_{出}/2 = 0.2^{**}$

F. A. =  $\pm 30^{\circ}$  \*\*



| 序号 | r       | d     | n     | v    |
|----|---------|-------|-------|------|
| 1  | -12.600 | 0.191 | 1.723 | 38.0 |
| 2  | 1.442   | 0.394 | 1.624 | 47.0 |
| 3  | -2.540  | 0.101 |       |      |
| 4  | 1.013   | 0.546 | 1.560 | 61.2 |
| 5  | -1.035  | 0.191 | 1.785 | 25.8 |
| 6  | -3.320  | 0.010 |       |      |
| 7  | 0.893   | 0.540 | 1.540 | 59.7 |
| 8  | -1.191  | 0.050 | 1.805 | 25.5 |
| 9  | 3.750   |       |       |      |

|                |              |              |              |              |              |        |                 |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|----------|------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |          |            |             |
|                | 0.00033      | - 0.00142    | 0.00011      | 0.00933      | 0.03416      | 0.57   | 21%             |          |            |             |
| h 或 $\omega$ % | $L_p$        | $I'_p$       | LA'          | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$   | $K_{T1}$ | $K_{T0.7}$ | $\Delta H'$ |
| 100            | - 0.215      | - 2.4        | 0.004        | - 0.006      | 0.05         | 0.07   | - 0.02          | - 0.009  | - 0.002    | 0.12        |
| 70             |              |              | 0.002        | - 0.003      | 0.03         | 0.04   | - 0.01          | - 0.006  | - 0.003    | 0.04        |



编号: 08-01-092

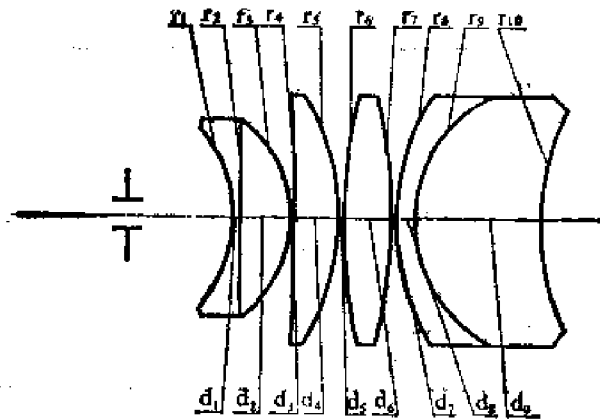
# 广 角 目 镜

E. F. L = 100

B. F. L = 29

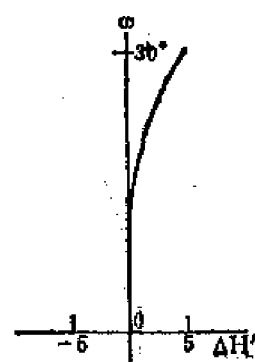
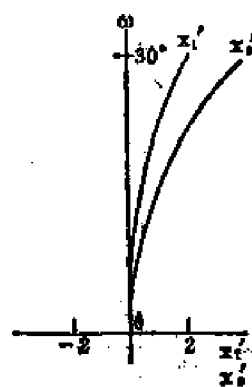
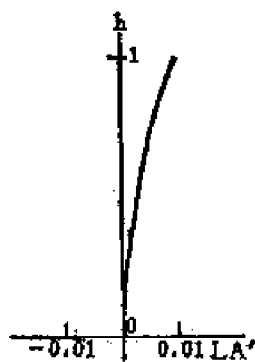
$\phi_m/2 = 1^{\circ}$ \*\*

F. A. =  $\pm 30^{\circ}$ \*\*



| 序号 | r        | d    | n      | v    |
|----|----------|------|--------|------|
| 1  | -101.5   | 4.3  | 1.6989 | 30.1 |
| 2  | $\infty$ | 35.7 | 1.6138 | 56.3 |
| 3  | -91.4    | 0.6  |        |      |
| 4  | -2186.0  | 31.4 | 1.6138 | 56.3 |
| 5  | -174.0   | 0.6  |        |      |
| 6  | 373.0    | 34.3 | 1.6138 | 56.3 |
| 7  | -449.0   | 0.6  |        |      |
| 8  | 180.0    | 14.3 | 1.6433 | 47.8 |
| 9  | 98.0     | 88.6 | 1.5750 | 41.3 |
| 10 | 170.7    |      |        |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|                | 0            | 0.00004      | - 0.00027    | 0.00125      | 0.12473      | 57.7   | 8.9%          |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l'_p$       | LA'          | OSC'         | $x'_2$       | $x'_4$ | $x'_2 - x'_4$ | $K'_{f1}$ | $K'_{f0.7}$ | $\Delta H'$ |
| 100            | -76          | 1077         | 0.009        | 0            | 2.19         | 4.37   | - 2.18        | 0.004     | 0.002       | 5.1         |
| 70             |              |              | 0.004        | 0            | 0.94         | 2.08   | - 1.14        | 0.0038    | 0.0019      | 1.7         |



编号: 08-01-093

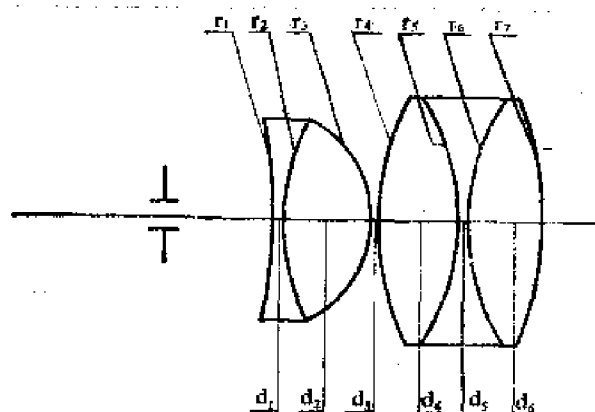
# 广 角 目 镜

E. F. L = 100

B. F. L = 35.1

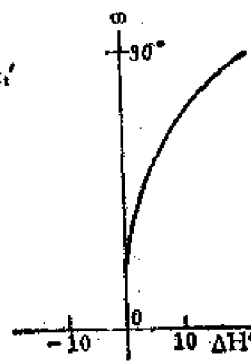
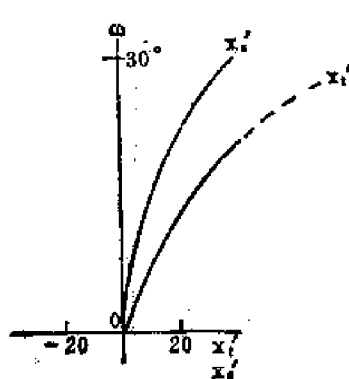
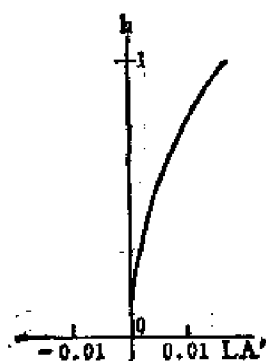
$\phi_{出}/2 = 1^{\circ} 30'$

F. A. =  $\pm 30'$



| 序号 | r      | d    | n       | v    |
|----|--------|------|---------|------|
| 1  | -349.9 | 11.3 | 1.56841 | 42.6 |
| 2  | 162.4  | 62.2 | 1.64036 | 57.6 |
| 3  | -80.4  | 0.6  |         |      |
| 4  | 207.7  | 53.8 | 1.58830 | 60.2 |
| 5  | -172.6 | 11.2 | 1.72748 | 28.5 |
| 6  | 172.6  | 50.9 | 1.58830 | 60.2 |
| 7  | -238.2 |      |         |      |

|                |              |              |              |              |              |        |               |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|----------|------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |          |            |             |
|                | 0            | 0.00015      | 0.00552      | 0.00224      | 0.42388      | 57     | 41%           |          |            |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | $LA'$        | OSC'         | $x_i'$       | $x_s'$ | $x_i' - x_s'$ | $K_{f1}$ | $K_{f0.7}$ | $\Delta H'$ |
| 100            | -75          | 322          | 0.017        | 0.0001       | 100.7        | 41.6   | 59.1          | 0.098    | 0.048      | 23.9        |
| 70             |              |              | 0.008        | 0            | 43.7         | 17.7   | 26.0          | 0.024    | 0.012      | 6.6         |





编号: 08-01-094

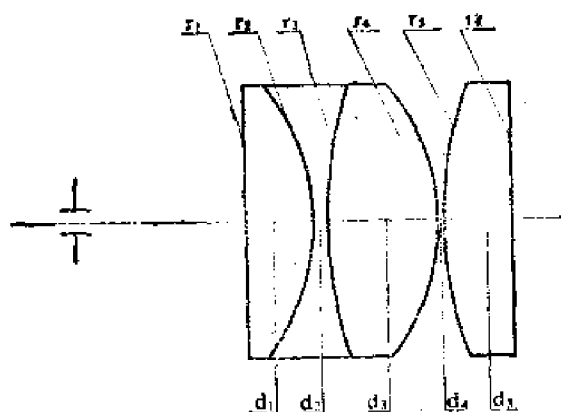
# 广角目镜

E.F.L=100

B.F.L=77.9

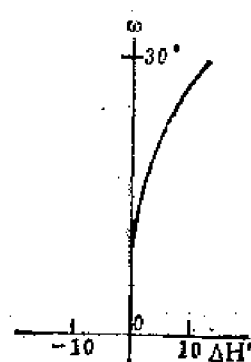
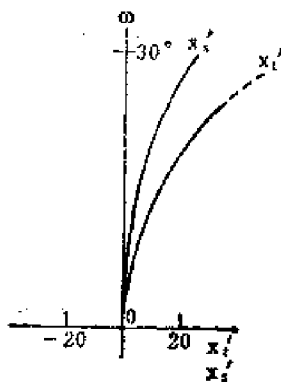
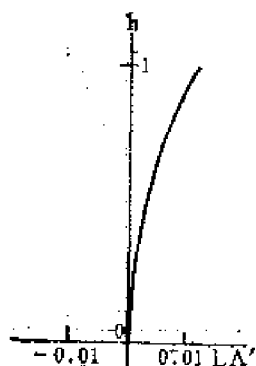
$\phi_H/2=1^{**}$

F.A. =  $\pm 30^{**}$



| 序号 | r        | d    | n       | v    |
|----|----------|------|---------|------|
| 1  | $\infty$ | 30.4 | 1.69100 | 54.8 |
| 2  | -101.3   | 6.6  | 1.64770 | 33.8 |
| 3  | 202.7    | 50.7 | 1.65100 | 58.6 |
| 4  | -98.6    | 1.5  |         |      |
| 5  | 178.8    | 30.4 | 1.56024 | 60.9 |
| 6  | $\infty$ |      |         |      |

|                |              |              |              |              |              |        |                 |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|                | 0            | 0.00008      | 0.00246      | 0.00205      | 0.23595      | 57     | 24%             |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l_f$        | LA'          | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$   | $K'_{f1}$ | $K'_{f0.7}$ | $\Delta H'$ |
| 100            | -75          | 446          | 0.012        | 0            | 56.4         | 23.4   | 33.0            | 0.029     | 0.014       | 14.2        |
| 70             |              |              | 0.006        | 0            | 23.0         | 10.3   | 12.7            | 0.012     | 0.006       | 4.3         |



编号: 08-01-095

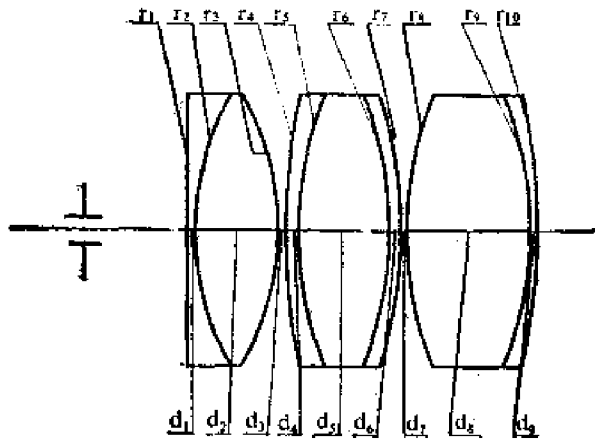
# 广角目镜

E. F. L = 15.51

B. F. L = 7.9

$\phi_m/2 = 1.5^{\circ}$

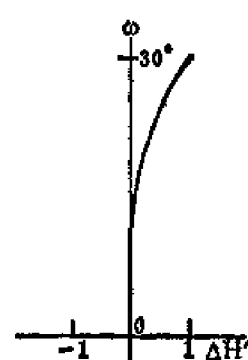
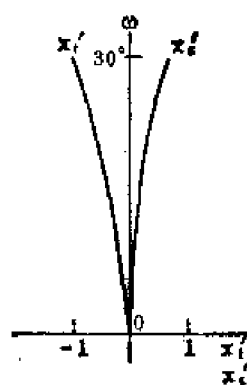
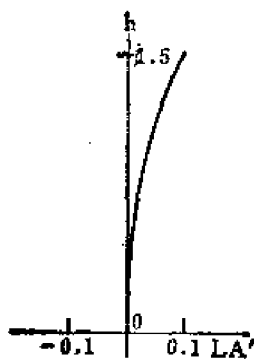
F. A. =  $\pm 30^{\circ}$



| 序号 | r        | d   | n     | v    |
|----|----------|-----|-------|------|
| 1  | $\infty$ | 0.5 | 1.649 | 33.8 |
| 2  | 21.0     | 6.2 | 1.516 | 64.0 |
| 3  | -18.2    | 0.1 |       |      |
| 4  | 50.0     | 0.5 | 1.649 | 33.8 |
| 5  | 25.0     | 6.5 | 1.516 | 64.0 |
| 6  | -25.0    | 0.5 | 1.649 | 33.8 |
| 7  | -33.0    | 0.1 |       |      |
| 8  | 27.0     | 8.7 | 1.516 | 64.0 |
| 9  | -27.0    | 0.5 | 1.649 | 33.8 |
| 10 | -45.2    |     |       |      |

|  |              |              |              |              |              |     |         |
|--|--------------|--------------|--------------|--------------|--------------|-----|---------|
|  | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | III | QP(100) |
|  | 0.0018       | 0.0003       | -0.0209      | 0.0383       | 0.2213       | 8.9 | 11%     |

|                |       |       |      |        |        |        |               |          |            |             |
|----------------|-------|-------|------|--------|--------|--------|---------------|----------|------------|-------------|
| h 或 $\omega$ % | $l_p$ | $l_f$ | LA'  | OSC'   | $x'_i$ | $x'_o$ | $x'_i - x'_o$ | $K_{f1}$ | $K_{f0.7}$ | $\Delta H'$ |
| 100            | -7.2  | 603   | 0.10 | 0.0001 | -1.2   | 0.7    | -1.9          | 0.0031   | 0.0017     | 1.0         |
| 70             |       |       | 0.05 | 0      | -0.56  | 0.37   | -0.93         | 0.0035   | 0.0018     | 0.3         |



编号: 08-01-096

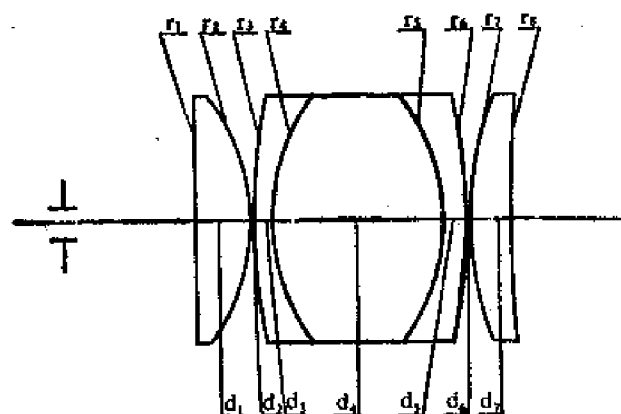
# 广 角 目 镜

E. F. L = 15.75

B. F. L = 6.6

$\phi_{\omega}/2 = 2^{\circ}$

F. A. =  $\pm 30^{\circ}$

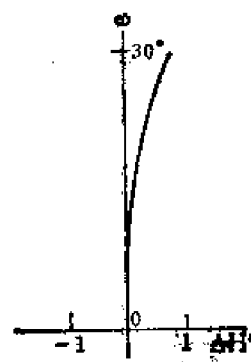
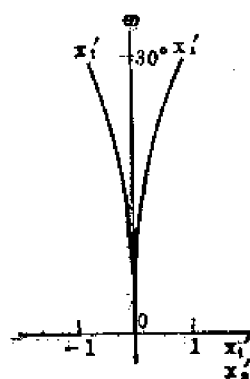
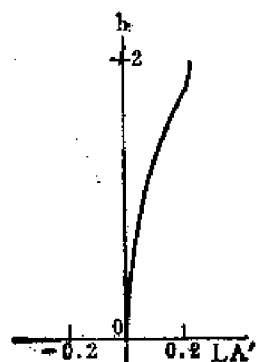


| 序号 | r        | d    | n     | v    |
|----|----------|------|-------|------|
| 1  | $\infty$ | 4.0  | 1.614 | 56.4 |
| 2  | -15.737  | 0.1  |       |      |
| 3  | 52.000   | 1.5  | 1.673 | 32.0 |
| 4  | 15.000   | 12.0 | 1.614 | 56.4 |
| 5  | -15.000  | 1.5  | 1.673 | 32.0 |
| 6  | -52.000  | 0.1  |       |      |
| 7  | 26.000   | 3.0  | 1.614 | 56.4 |
| 8  | 110.340  |      |       |      |

|  | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI | QP(100) |
|--|--------------|--------------|--------------|--------------|--------------|----|---------|
|  | 0.0081       | 0.0059       | -0.0323      | 0.0638       | 0.3018       | 9  | 9%      |

| h 或 $\omega$ % | $L_p$ | $l_p$ | $LA'$ | OSC'  | $x'_1$ | $x'_2$ | $x'_1 - x'_2$ | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
|----------------|-------|-------|-------|-------|--------|--------|---------------|-----------|-------------|-------------|
| 100            | -9.3  | -5421 | 0.25  | 0.002 | -0.75  | 0.91   | -1.66         | 0.084     | 0.041       | 0.82        |
| 70             |       |       | 0.12  | 0.001 | -0.41  | 0.42   | -0.83         | 0.052     | 0.026       | 0.28        |



编号: 08-01-097

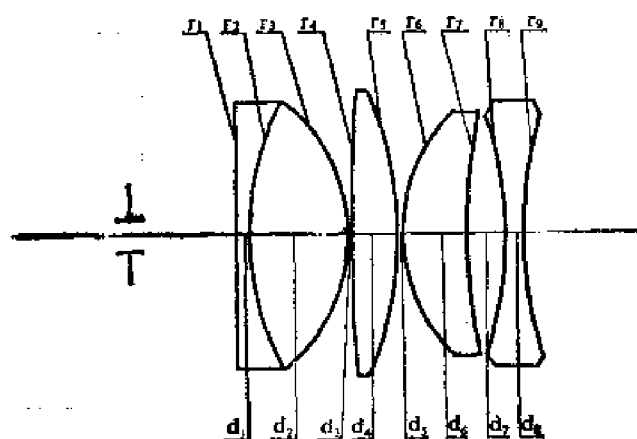
# 广 角 目 镜

E. F. L = 100

B. F. L = 17.97

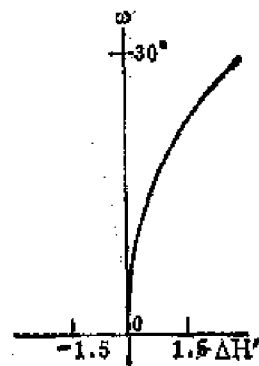
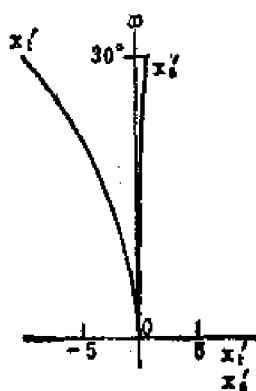
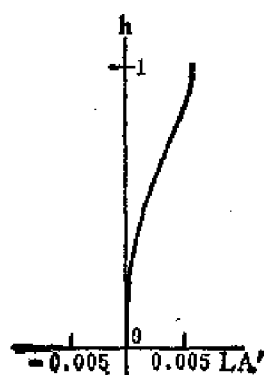
$\phi_{\text{出}}/2 = 1^{\circ}$  \*\*

F. A. =  $\pm 30^{\circ}$  \*\*



| 序号 | r        | d     | n      | v    |
|----|----------|-------|--------|------|
| 1  | $\infty$ | 11.09 | 1.7283 | 28.3 |
| 2  | 214.5    | 70.26 | 1.6204 | 60.3 |
| 3  | -125.7   | 0.92  |        |      |
| 4  | 739.6    | 33.28 | 1.5687 | 63.1 |
| 5  | -290.3   | 0.92  |        |      |
| 6  | 124.8    | 48.07 | 1.6923 | 54.7 |
| 7  | 402.1    | 27.73 |        |      |
| 8  | -260.7   | 11.09 | 1.7283 | 28.3 |
| 9  | 305.1    |       |        |      |

|                |              |              |              |              |              |        |               |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |           |             |             |
|                | 0            | 0.00002      | -0.00103     | 0.00129      | 0.04526      | 57     | 4.8%          |           |             |             |
| h 或 $\omega$ % | $L_p$        | $L'_p$       | LA'          | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$ | $K'_{F1}$ | $K'_{F0.7}$ | $\Delta H'$ |
| 100            | -78.05       | $\infty$     | 0.007        | 0            | -10.8        | 0.9    | -11.7         | 0.0050    | 0.0024      | 2.8         |
| 70             |              |              | 0.003        | 0            | -4.3         | 0.5    | -4.8          | 0.0028    | 0.0014      | 1.2         |



编号: 08-01-098

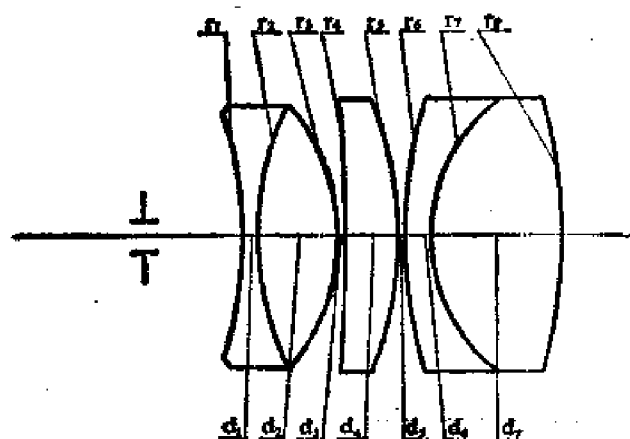
# 三组元广角目镜

E. F. L = 15.75

B. F. L = 10.1

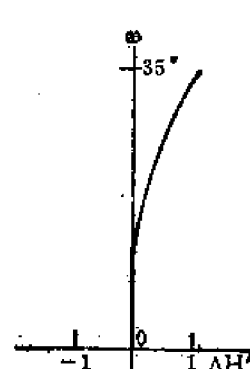
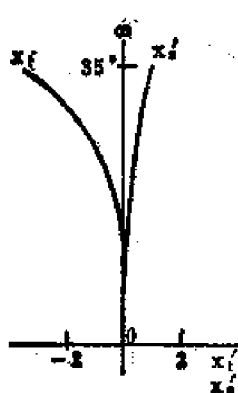
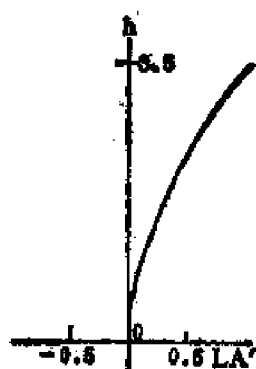
$\phi_H/2 = 8.5^\circ$

F. A. =  $\pm 35^\circ$



| 序号 | r       | d   | n     | v    |
|----|---------|-----|-------|------|
| 1  | -31.50  | 1.0 | 1.649 | 33.8 |
| 2  | 22.74   | 6.0 | 1.690 | 61.2 |
| 3  | -14.64  | 0.1 |       |      |
| 4  | -661.50 | 4.0 | 1.516 | 64.0 |
| 5  | -23.57  | 0.1 |       |      |
| 6  | 34.82   | 2.0 | 1.620 | 36.3 |
| 7  | 13.00   | 9.0 | 1.516 | 64.0 |
| 8  | -34.99  |     |       |      |

|                |              |              |              |              |              |        |               |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |           |             |             |
|                | 0.108        | 0.067        | -0.129       | 0.259        | 0.771        | 11     | 10%           |           |             |             |
| h 或 $\omega\%$ | $L_p$        | $l_p'$       | LA'          | OSC'         | $x_1'$       | $x_2'$ | $x_1' - x_2'$ | $K_{T1}'$ | $K_{T3.7}'$ | $\Delta H'$ |
| 100            | -6.8         | -571         | 1.11         | 0.014        | -3.6         | 0.9    | -4.5          | 0.014     | 0.026       | 1.1         |
| 70             |              |              | 0.55         | 0.006        | -0.6         | 0.5    | -1.1          | 0.223     | 0.114       | 0.4         |



编号: 08-01-099

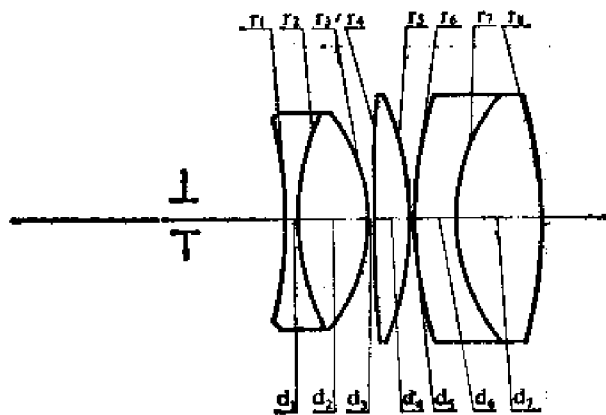
# 五组元广角目镜

E.F.L=14

B.P.L=9.8

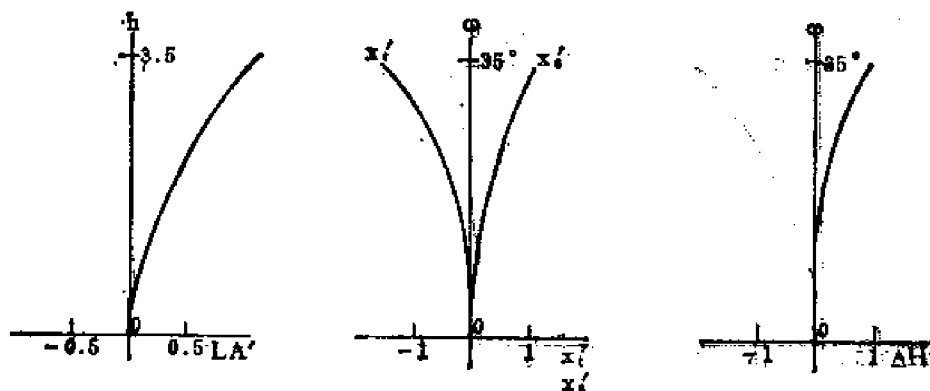
$\phi_{\text{出}}/2=35^\circ$ \*\*

F.A. $\approx \pm 35^\circ$ \*\*



| 序号 | r      | d   | n     | v    |
|----|--------|-----|-------|------|
| 1  | -24.00 | 1.0 | 1.649 | 33.8 |
| 2  | 20.21  | 5.0 | 1.590 | 61.2 |
| 3  | -12.96 | 0.1 |       |      |
| 4  | 157.72 | 2.5 | 1.516 | 64.0 |
| 5  | -25.00 | 0.1 |       |      |
| 6  | 30.95  | 3.0 | 1.620 | 36.3 |
| 7  | 14.50  | 0.0 | 1.516 | 64.0 |
| 8  | -42.68 |     |       |      |

|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |          |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|----------|-------------|-------------|
|                | 0.141        | 0.089        | -0.131       | 0.280        | -0.758       | 9.8    | 10.9%         |          |             |             |
| h 或 $\omega\%$ | $L_p$        | $l_p$        | $LA'$        | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$ | $K_{f1}$ | $K'_{f0.7}$ | $\Delta H'$ |
| 100            | -7.6         | $-\infty$    | 1.15         | 0.118        | -1.6         | 0.9    | -2.5          | 0.027    | 0.055       | 1.0         |
| 70             |              |              | 0.57         | 0.009        | -0.45        | 0.46   | -0.91         | 0.244    | 0.127       | 0.3         |



编号: 08-01-100

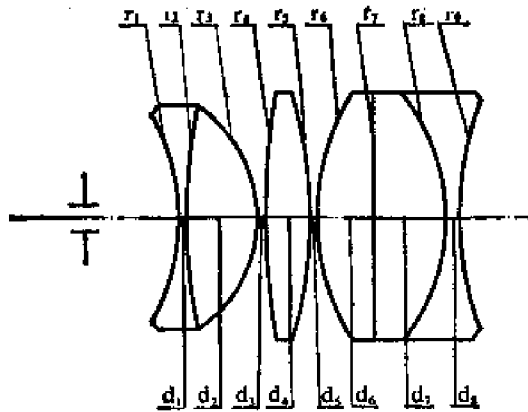
# 广 角 目 镜

E. F. L = 15.6

B. F. L = 6.8

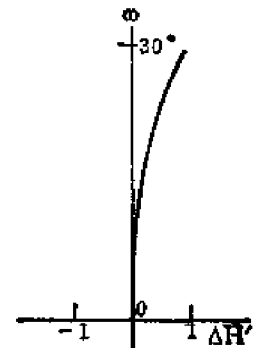
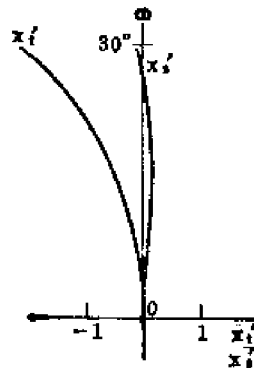
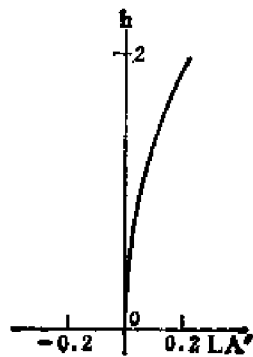
$\phi_{出}/2 = 2^{\circ}$

F. A. =  $\pm 30^{\circ}$



| 序号 | r        | d   | n       | v    |
|----|----------|-----|---------|------|
| 1  | -20.00   | 0.7 | 1.63745 | 35.1 |
| 2  | 50.00    | 6.5 | 1.62411 | 57.0 |
| 3  | -14.75   | 0.1 |         |      |
| 4  | 59.50    | 4.5 | 1.62411 | 57.0 |
| 5  | -36.50   | 0.1 |         |      |
| 6  | 22.70    | 5.0 | 1.62411 | 57.0 |
| 7  | $\infty$ | 6.5 | 1.51047 | 64.0 |
| 8  | -18.20   | 1.5 | 1.63745 | 35.1 |
| 9  | 35.11    |     |         |      |

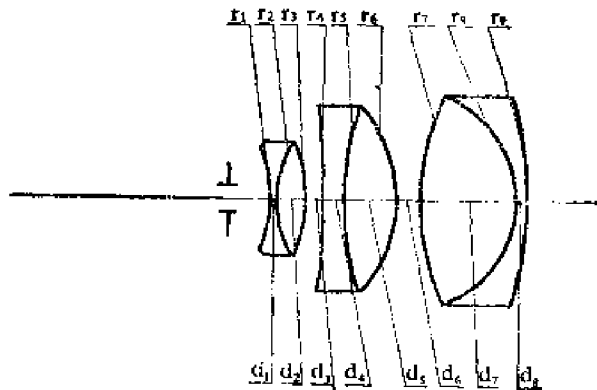
|                |              |              |              |              |              |        |               |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | III    | QP(100)       |           |             |             |
|                | 0.0078       | 0.0020       | -0.0315      | 0.0352       | 0.2965       | 9      | 9.7%          |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l_p$        | LA'          | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$ | $K'_{F1}$ | $K'_{F0.7}$ | $\Delta H'$ |
| 100            | -8**         | -64          | 0.242        | 0.0009       | -2.28        | -0.05  | -2.23         | -0.0007   | -0.0004     | 0.8         |
| 70             |              |              | 0.120        | 0.0004       | -0.88        | 0.01   | -0.89         | 0.0100    | 0.0049      | 0.3         |



编号: 08-01-101

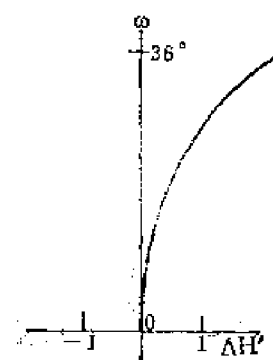
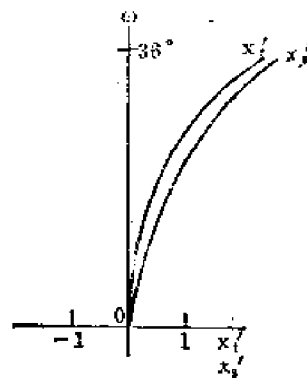
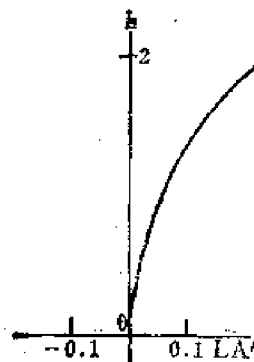
# 广 角 目 镜

E. F. L = 25.1      B. F. L = 11.5       $\phi_{\text{目}}/2 = 2^{\circ}$  \*\*      F. A. =  $\pm 36^{\circ}$



| 序号 | r      | d    | n     | v    |
|----|--------|------|-------|------|
| 1  | -23.0  | 1.0  | 1.540 | 50.9 |
| 2  | 19.3   | 4.5  | 1.623 | 58.1 |
| 3  | -26.0  | 3.0  |       |      |
| 4  | -150.0 | 4.0  | 1.620 | 36.3 |
| 5  | 57.0   | 9.0  | 1.623 | 58.1 |
| 6  | -26.0  | 5.0  |       |      |
| 7  | 50.0   | 17.0 | 1.623 | 58.1 |
| 8  | -20.0  | 2.0  | 1.740 | 28.2 |
| 9  | -73.4  |      |       |      |

|                |              |              |              |              |              |        |                 |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|                | 0.0028       | 0.0075       | -0.0112      | 0.0525       | 0.6050       | 18.2   | 14%             |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | $LA'$        | OSC'         | $x_1'$       | $x_2'$ | $x_1' - x_2'$   | $K_{T1}'$ | $K_{T0.7}'$ | $\Delta H'$ |
| 100            | -7           | -827         | 0.228        | 0.002        | 2.2          | 2.6    | -0.4            | 0.269     | 0.126       | 2.6         |
| 70             |              |              | 0.113        | 0.001        | 0.76         | 1.26   | -0.50           | 0.110     | 0.054       | 0.9         |





编号: 08-01-102

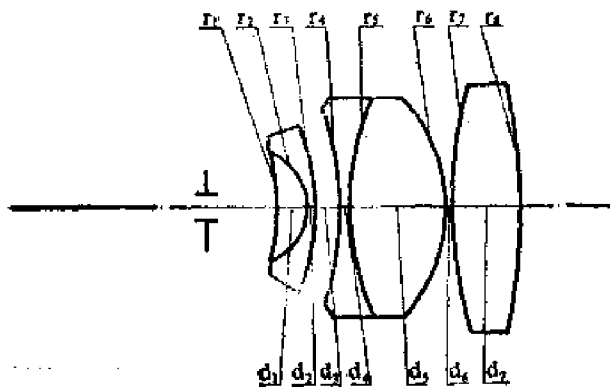
# 广 角 目 镜

E. F. L = 50.5

B. F. L = 50.6

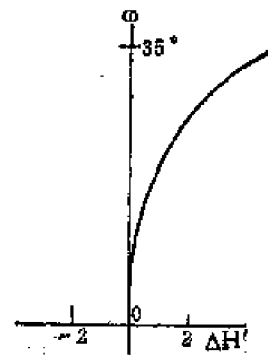
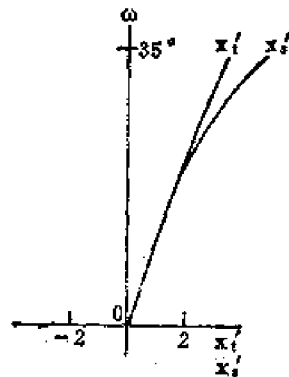
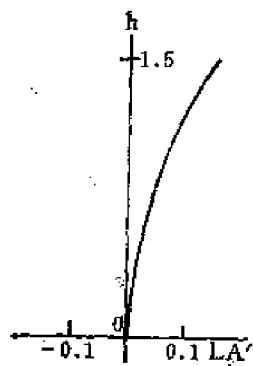
$\phi_{\omega}/2 = 1.5^{\circ}$

F. A. =  $\pm 35^{\circ}$



| 序号 | r      | d    | n     | v    |
|----|--------|------|-------|------|
| 1  | -48.0  | 8.0  | 1.610 | 56.5 |
| 2  | -13.0  | 2.0  | 1.548 | 45.9 |
| 3  | -50.0  | 5.0  |       |      |
| 4  | -71.8  | 3.0  | 1.673 | 32.2 |
| 5  | 65.0   | 22.0 | 1.569 | 63.1 |
| 6  | -40.0  | 0.5  |       |      |
| 7  | 102.4  | 16.0 | 1.610 | 56.5 |
| 8  | -164.0 |      |       |      |

|                |              |              |              |              |              |        |                 |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|----------|------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |          |            |             |
|                | 0.0002       | 0.0016       | 0.0004       | 0.0109       | 0.3867       | 35     | 13%             |          |            |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | LA'          | OSC'         | $x_1'$       | $x_2'$ | $x_1' - x_2'$   | $K_{T1}$ | $K_{T0.7}$ | $\Delta H'$ |
| 100            | -15          | -721         | 0.159        | 0.0007       | 3.4          | 4.8    | -1.4            | 0.074    | 0.036      | 4.7         |
| 70             |              |              | 0.079        | 0.0003       | 2.4          | 2.5    | -0.1            | 0.050    | 0.025      | 1.6         |



编号: 08-01-103

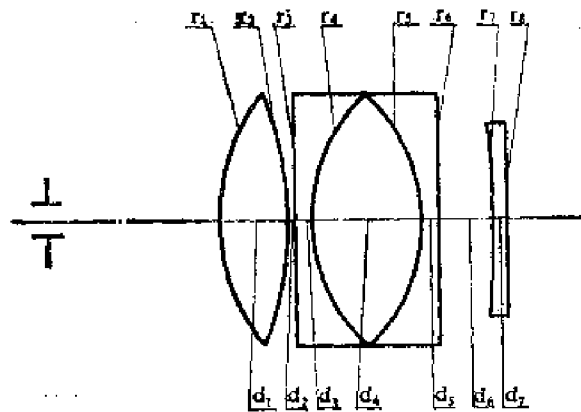
# 目 镜

E. F. L = 50.9

B. F. L = -0.21

$\phi_{\text{出}}/2 = 1^{**}$

F. A. =  $\pm 15^{**}$

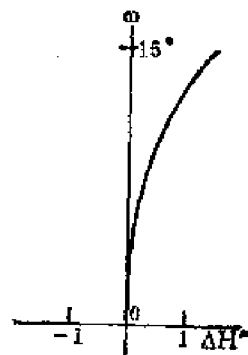
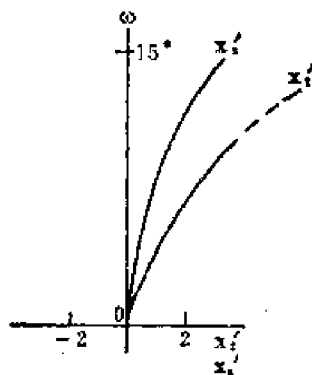
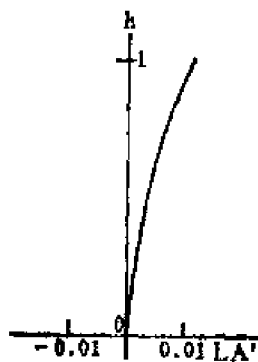


| 序号 | r        | d    | n      | v    |
|----|----------|------|--------|------|
| 1  | 60.64    | 22.4 | 1.7880 | 50.4 |
| 2  | -99.15   | 0.3  |        |      |
| 3  | $\infty$ | 5.1  | 1.7842 | 57.0 |
| 4  | 52.59    | 31.3 | 1.7880 | 50.4 |
| 5  | -52.59   | 5.1  | 1.7842 | 57.0 |
| 6  | $\infty$ | 16.3 |        |      |
| 7  | -301.40  | 3.9  | 1.5080 | 61.1 |
| 8  | $\infty$ |      |        |      |

|  | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI   | QP(1 $\omega$ ) |
|--|--------------|--------------|--------------|--------------|--------------|------|-----------------|
|  | 0            | 0.0001       | 0.0017       | 0.0007       | 0.0586       | 13.6 | 11.7%           |

| h 或 $\omega$ % | $l_p$  | $l_p'$ | $LA'$ | OSC'   | $x_1'$ | $x_2'$ | $x_1' - x_2'$ | $K_{f1}$ | $K_{f0.7}$ | $\Delta H'$ |
|----------------|--------|--------|-------|--------|--------|--------|---------------|----------|------------|-------------|
| 100            | -57.15 | 351    | 0.011 | 0.0002 | 7.7    | 3.3    | 4.4           | 0.013    | 0.007      | 1.59        |
| 70             |        |        | 0.005 | 0.0001 | 3.7    | 1.6    | 2.1           | 0.007    | 0.003      | 0.52        |



编号: 08-01-104

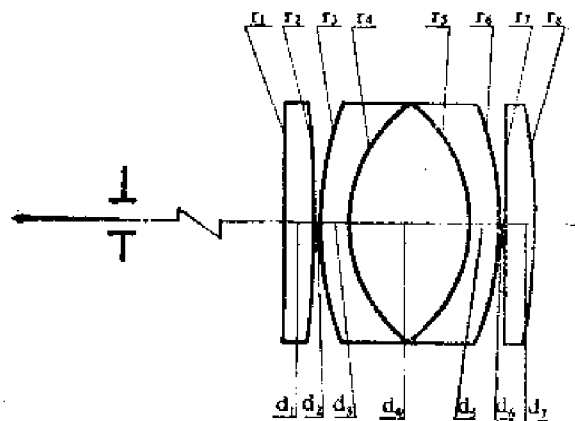
# 放 大 镜

E. F. L = 20.05

B. F. I = 13.89

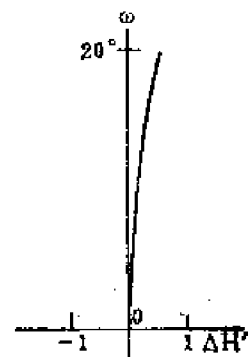
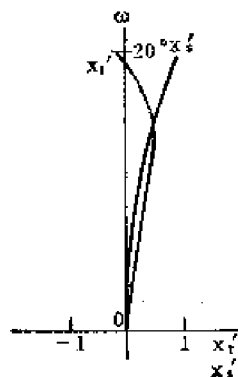
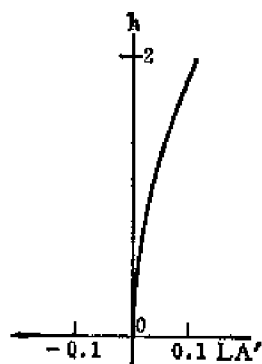
$\phi_{出}/2 = 2^{**}$

F. A. =  $\pm 20^{**}$



| 序号 | r        | d    | n     | v    |
|----|----------|------|-------|------|
| 1  | $\infty$ | 2.13 | 1.620 | 60.0 |
| 2  | -63.915  | 0.20 |       |      |
| 3  | 22.297   | 2.22 | 1.617 | 36.6 |
| 4  | 11.103   | 8.88 | 1.517 | 64.5 |
| 5  | -11.103  | 2.22 | 1.617 | 36.6 |
| 6  | -22.297  | 0.20 |       |      |
| 7  | $\infty$ | 2.13 | 1.620 | 60.0 |
| 8  | -58.843  |      |       |      |

|                |              |              |              |              |              |        |                 |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|----------|------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |          |            |             |
|                | 0.0021       | 0.0033       | 0.0049       | 0.0210       | 0.1198       | 7.3    | 7%              |          |            |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | LA'          | OSC'         | $x_1'$       | $x_2'$ | $x_1' - x_2'$   | $K_{f1}$ | $K_{f0.7}$ | $\Delta H'$ |
| 100            | -16**        | 153          | 0.109        | 0.002        | -0.2         | 0.9    | -1.1            | -0.140   | -0.059     | 0.52        |
| 70             |              |              | 0.055        | 0.001        | 0.58         | 0.55   | 0.03            | 0.009    | 0.006      | 0.20        |



编号: 08-01-105

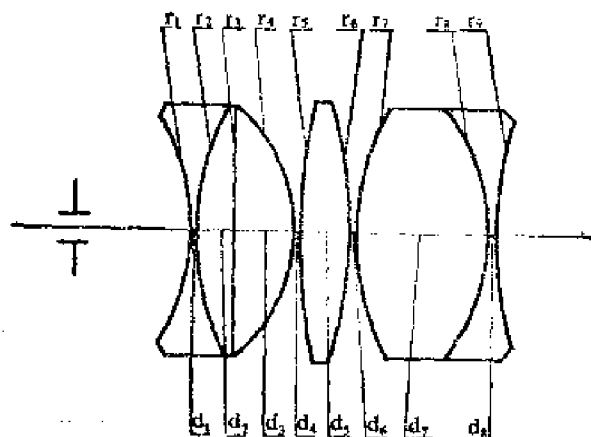
# 广 角 目 镜

E. F. L = 15.7

B. F. L = 7.66

$\phi_{\text{出}}/2 = 2^{\circ}$

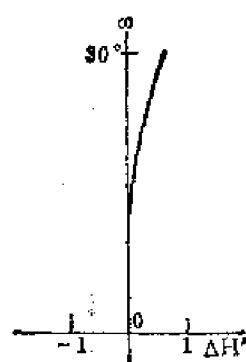
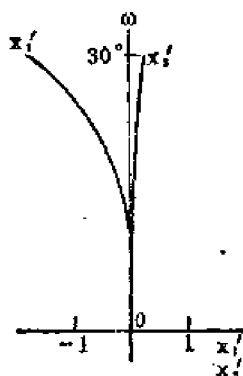
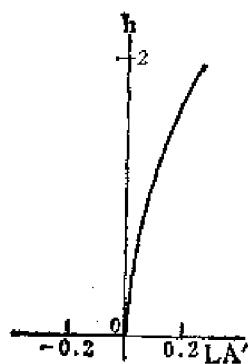
F. A. =  $\pm 30^{\circ}$



| 序号 | r        | d    | n       | v    |
|----|----------|------|---------|------|
| 1  | -20.50   | 0.7  | 1.63745 | 35.1 |
| 2  | 26.00    | 3.0  | 1.56876 | 60.7 |
| 3  | $\infty$ | 5.5  | 1.62411 | 57.0 |
| 4  | -14.42   | 0.1  |         |      |
| 5  | 55.98    | 4.5  | 1.62411 | 57.0 |
| 6  | -41.14   | 0.1  |         |      |
| 7  | 23.50    | 12.0 | 1.56876 | 60.7 |
| 8  | -18.50   | 1.0  | 1.63745 | 35.1 |
| 9  | 37.27    |      |         |      |

|  |              |              |              |              |              |    |                 |
|--|--------------|--------------|--------------|--------------|--------------|----|-----------------|
|  | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HJ | QP(1 $\omega$ ) |
|  | 0.0089       | 0.0121       | -0.0172      | 0.0348       | 0.2519       | 9  | 7.3%            |

| h 或 $\omega$ % | $L_p$ | $l_p'$ | LA'  | OSC'  | $x_1'$ | $x_2'$ | $x_3'$ $x_4'$ | $K_{T1}$ | $K_{f0.7}$ | $\Delta H'$ |
|----------------|-------|--------|------|-------|--------|--------|---------------|----------|------------|-------------|
| 100            | -10** | 719    | 0.28 | 0.005 | -1.9   | 0.2    | -2.1          | 0.044    | 0.023      | 0.66        |
| 70             |       |        | 0.13 | 0.002 | -0.45  | 0.18   | -0.63         | 0.073    | 0.036      | 0.25        |



编号: 08-01-106

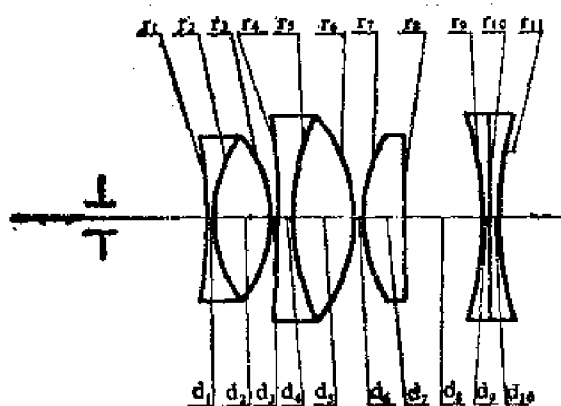
# 广 角 目 镜

E. F. L = 0.98

B. F. L = -0.05

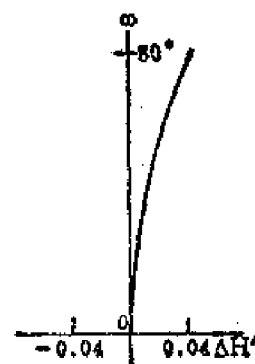
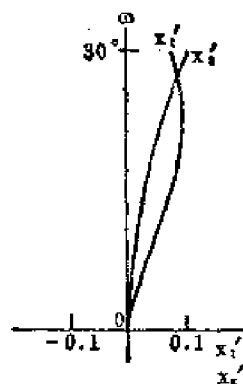
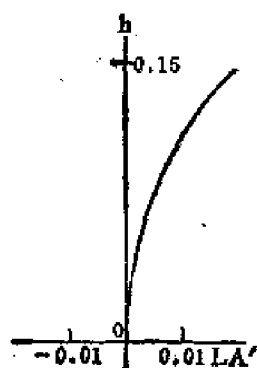
$\phi_{出}/2 = 0.15^{**}$

F. A. =  $\pm 30^{**}$



| 序号 | r        | d     | n      | v    |
|----|----------|-------|--------|------|
| 1  | -4.567   | 0.078 | 1.720  | 29.3 |
| 2  | 1.435    | 0.460 | 1.620  | 60.3 |
| 3  | -1.260   | 0.008 |        |      |
| 4  | -13.908  | 0.101 | 1.720  | 29.3 |
| 5  | 2.185    | 0.560 | 1.620  | 60.3 |
| 6  | -1.481   | 0.008 |        |      |
| 7  | 1.481    | 0.386 | 1.620  | 60.3 |
| 8  | $\infty$ | 0.674 |        |      |
| 9  | -3.183   | 0.080 | 1.5838 | 46.0 |
| 10 | $\infty$ | 0.080 | 1.5838 | 46.0 |
| 11 | 3.183    |       |        |      |

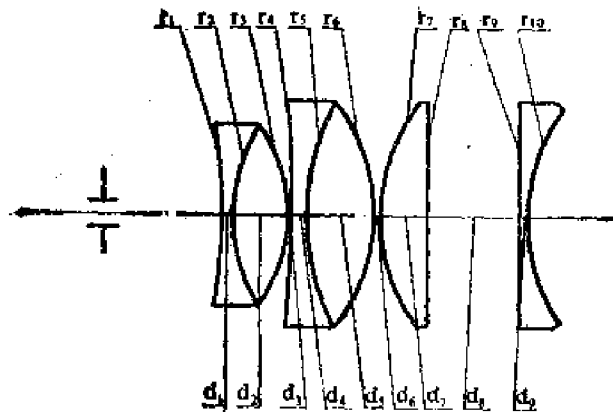
|                |              |              |              |              |              |         |                |         |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|---------|----------------|---------|------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI      | QP(100)        |         |            |             |
|                | 0.0008       | 0.0023       | 0.0027       | 0.0032       | 0.0247       | 0.56    | 8.5%           |         |            |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | $LA'$        | OSC'         | $x_i'$       | $x_i''$ | $x_i' - x_i''$ | $Kf_1$  | $Kf_{0.7}$ | $\Delta H'$ |
| 100            | -0.95**      | 3.1          | 0.018        | 0.013        | 0.08         | 0.09    | -0.01          | -0.0008 | 0.0007     | 0.04        |
| 70             |              |              | 0.009        | 0.006        | 0.09         | 0.05    | 0.04           | 0.013   | 0.006      | 0.02        |



编号: 08-01-107

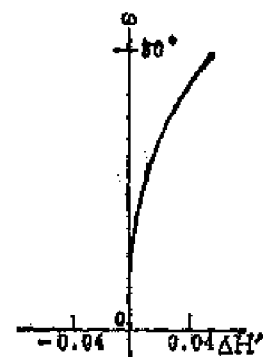
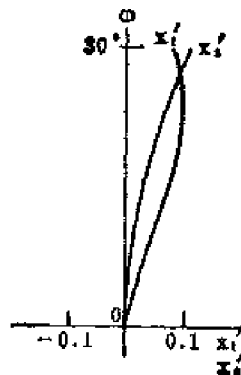
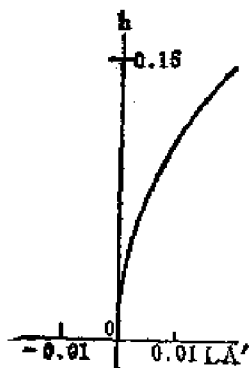
# 广 角 目 镜

$\Sigma F.L = 0.96$      $B.F.L = -0.055$      $\phi_m/2 = 0.15^{**}$      $F.A. = \pm 30^{**}$



| 序号 | r        | d     | n      | v     |
|----|----------|-------|--------|-------|
| 1  | -4.567   | 0.078 | 1.7200 | 29.30 |
| 2  | 1.435    | 0.460 | 1.6200 | 60.33 |
| 3  | -1.260   | 0.008 |        |       |
| 4  | -13.908  | 0.101 | 1.7200 | 29.30 |
| 5  | 2.185    | 0.560 | 1.6200 | 60.33 |
| 6  | -1.481   | 0.008 |        |       |
| 7  | 1.481    | 0.386 | 1.6200 | 60.33 |
| 8  | $\infty$ | 0.725 |        |       |
| 9  | $\infty$ | 0.089 | 1.5838 | 46.00 |
| 10 | 1.591    |       |        |       |

|                |              |              |              |              |              |        |               |          |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1m)        |          |             |             |
|                | 0.0008       | 0.0024       | 0.0029       | 0.0032       | 0.0311       | 0.55   | 11.3%         |          |             |             |
| h 或 $\omega$ % | $L_p$        | $l_f$        | $LA'$        | $OSC'$       | $x'_1$       | $x'_2$ | $x'_1 - x'_2$ | $K_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -0.95**      | 2.8          | 0.018        | 0.014        | 0.08         | 0.09   | -0.01         | -0.0010  | 0.0006      | 0.06        |
| 70             |              |              | 0.009        | 0.007        | 0.09         | 0.05   | 0.04          | 0.0134   | 0.0067      | 0.02        |



编号: 08-01-108

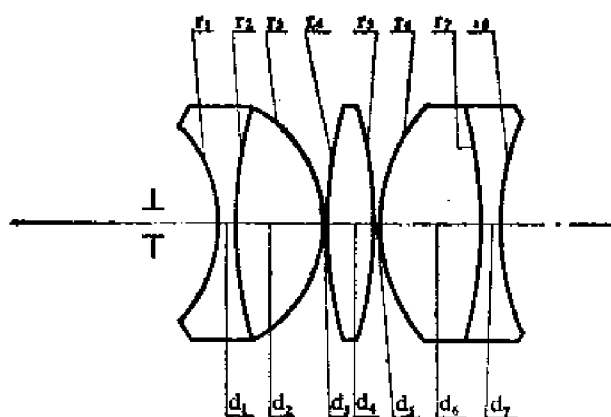
# 广 角 目 镜

E. F. L = 40.8

B. F. L = 24.07

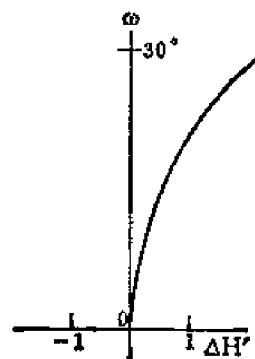
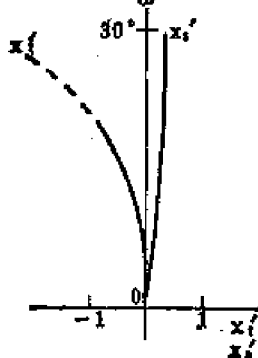
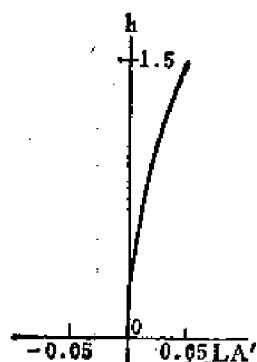
$\phi_{\text{出}}/2 = 1.5^\circ$

F. A. =  $\pm 30^\circ$



| 序号 | r      | d    | n     | v    |
|----|--------|------|-------|------|
| 1  | -40.6  | 4.7  | 1.734 | 28.1 |
| 2  | 135.7  | 24.1 | 1.610 | 56.4 |
| 3  | -37.2  | 0.1  |       |      |
| 4  | 124.6  | 13.0 | 1.694 | 54.6 |
| 5  | -124.6 | 0.1  |       |      |
| 6  | 49.6   | 28.8 | 1.592 | 48.4 |
| 7  | -129.0 | 4.7  | 1.769 | 26.3 |
| 8  | 71.1   |      |       |      |

|                |              |              |              |              |              |        |                 |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|----------|------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |          |            |             |
|                | 0.00013      | 0.00061      | -0.00197     | 0.00517      | 0.26926      | 23.2   | 11%             |          |            |             |
| h 或 $\omega$ % | $L_p$        | $I_p'$       | LA'          | OSC'         | $x_1'$       | $x_2'$ | $x_1' - x_2'$   | $K_{T1}$ | $K_{T0.7}$ | $\Delta H'$ |
| 100            | -24.2        | 790          | 0.049        | 0.0003       | -3.3         | 0.3    | -3.6            | 0.007    | 0.003      | 2.6         |
| 70             |              |              | 0.024        | 0.0001       | -0.8         | 0.3    | -1.1            | 0.010    | 0.005      | 0.9         |



编号: 08-01-109

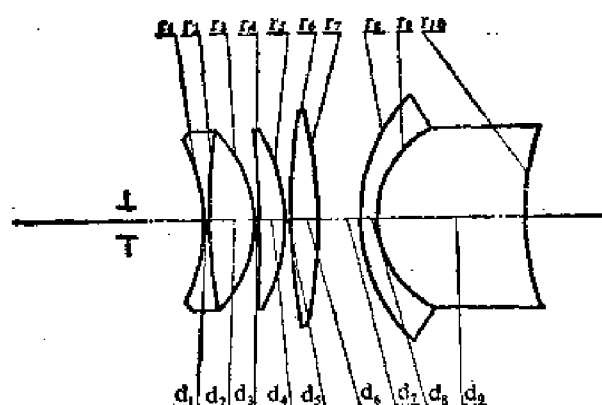
# 广角虚焦面目镜

E. F. L = 100

B. P. L = -18.3

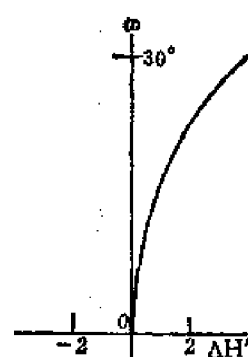
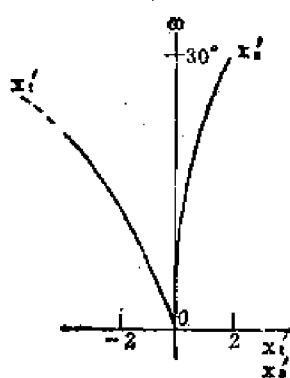
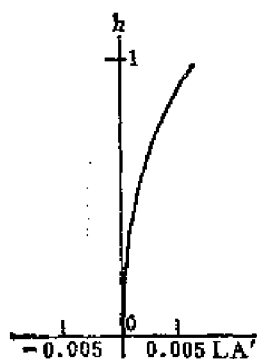
$\phi_H/2 = 1^{**}$

F. A. =  $\pm 30^{**}$



| 序号 | r      | d     | n       | v    |
|----|--------|-------|---------|------|
| 1  | -169.0 | 5.3   | 1.72786 | 28.3 |
| 2  | 794.6  | 39.2  | 1.65988 | 57.1 |
| 3  | -113.9 | 0.5   |         |      |
| 4  | -986.4 | 25.4  | 1.60712 | 59.5 |
| 5  | -196.0 | 1.6   |         |      |
| 6  | 468.3  | 26.1  | 1.60712 | 59.5 |
| 7  | -468.3 | 37.9  |         |      |
| 8  | 166.3  | 10.6  | 1.64738 | 33.9 |
| 9  | 87.9   | 133.0 | 1.56299 | 60.7 |
| 10 | 233.6  |       |         |      |

|         |              |              |              |              |              |        |               |        |             |             |
|---------|--------------|--------------|--------------|--------------|--------------|--------|---------------|--------|-------------|-------------|
|         | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1w)        |        |             |             |
|         | 0            | 0.00002      | -0.00121     | 0.00152      | 0.10472      | 57     | 7.2%          |        |             |             |
| h 或 w % | $L_p$        | $l_p'$       | $LA'$        | OSC'         | $x_1'$       | $x_2'$ | $x_1' - x_2'$ | $Kf_1$ | $Kf_{10.7}$ | $\Delta H'$ |
| 100     | -70**        | 2365         | 0.006        | 0            | -8.1         | 1.8    | -9.9          | 0.0033 | 0.0016      | 4.1         |
| 70      |              |              | 0.003        | 0            | -4.2         | 0.7    | -4.9          | 0.0026 | 0.0013      | 1.4         |





编号: 08-01-110

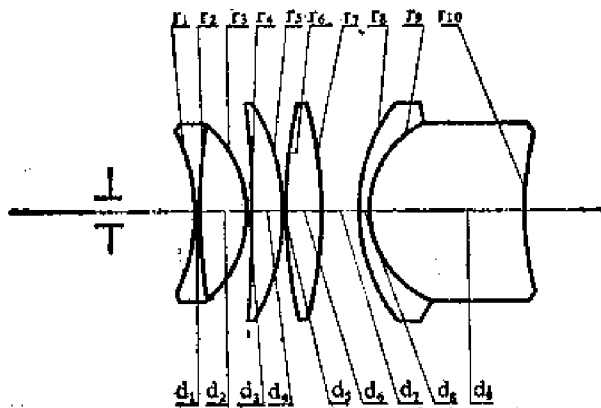
# 虚焦面目镜

E. F. L = 100

B. F. L = -18

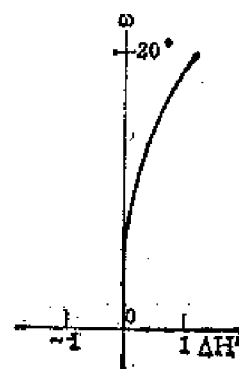
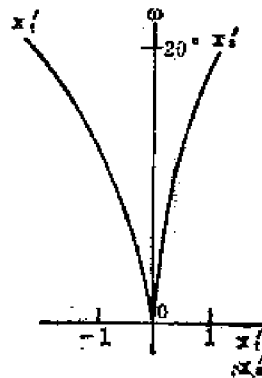
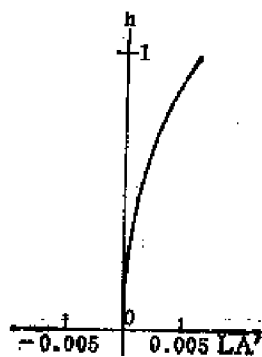
$\phi_{\text{出}}/2 = 1^{**}$

F. A. =  $\pm 20^{**}$



| 序号 | r       | d     | n      | v    |
|----|---------|-------|--------|------|
| 1  | -174.0  | 5.3   | 1.7275 | 28.4 |
| 2  | 668.9   | 39.5  | 1.6498 | 58.5 |
| 3  | -112.6  | 1.0   |        |      |
| 4  | -1805.0 | 26.4  | 1.5511 | 63.5 |
| 5  | -195.7  | 1.0   |        |      |
| 6  | 428.4   | 29.0  | 1.5511 | 63.5 |
| 7  | -428.4  | 35.3  |        |      |
| 8  | 180.5   | 7.9   | 1.6478 | 33.9 |
| 9  | 87.5    | 134.3 | 1.5511 | 63.5 |
| 10 | 231.8   |       |        |      |

|                |              |              |              |              |              |        |               |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|----------|------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |          |            |             |
|                | 0            | 0.00002      | -0.00041     | 0.00064      | 0.02511      | 36.4   | 3%            |          |            |             |
| h 或 $\omega$ % | $L_p$        | $l_p'$       | $LA'$        | OSC'         | $x_1'$       | $x_2'$ | $x_1' - x_2'$ | $K_{f1}$ | $K_{f0.7}$ | $\Delta H'$ |
| 100            | -75**        | 952          | 0.006        | 0            | -2.5         | 1.1    | -3.6          | 0.0028   | 0.0014     | 1.1         |
| 70             |              |              | 0.003        | 0            | -1.3         | 0.5    | -1.8          | 0.0021   | 0.0010     | 0.4         |



编号: 08-01-111

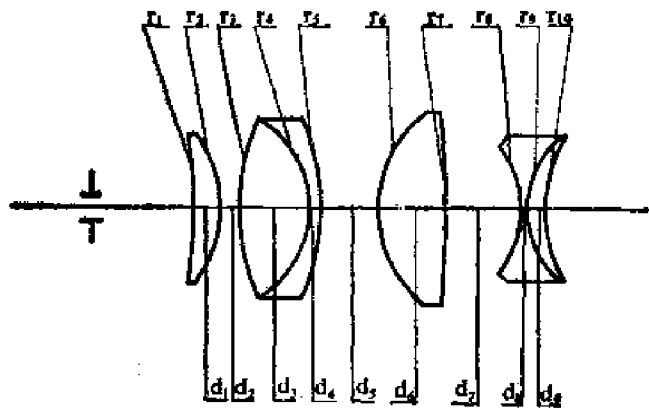
# 广角虚焦面目镜

E. F. L = 1.01

B. F. L = -0.65

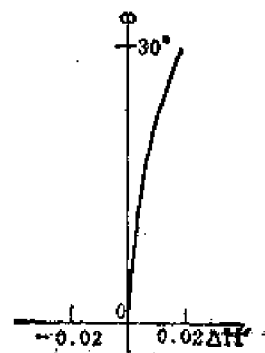
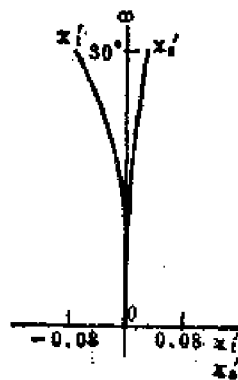
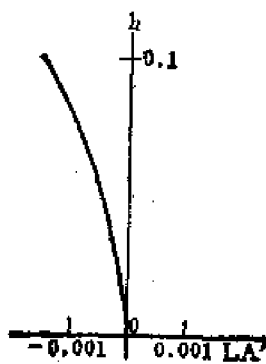
$\phi_m/2 = 0.1^\circ$

F. A. =  $\pm 30^\circ$



| 序号 | r         | d       | n       | v    |
|----|-----------|---------|---------|------|
| 1  | -6.02097  | 0.32223 | 1.58929 | 61.2 |
| 2  | -1.53432  | 0.22928 |         |      |
| 3  | 3.10576   | 0.81178 | 1.56518 | 59.0 |
| 4  | -1.23644  | 0.09295 | 1.77607 | 25.0 |
| 5  | -3.43493  | 0.70024 |         |      |
| 6  | 1.49076   | 0.76220 | 1.56575 | 56.0 |
| 7  | -16.48775 | 0.85329 |         |      |
| 8  | -1.25137  | 0.06197 | 1.48534 | 70.0 |
| 9  | 1.01082   | 0.19830 | 1.75366 | 27.5 |
| 10 | 1.69692   |         |         |      |

|              | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |          |            |             |
|--------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|----------|------------|-------------|
|              | -0.00003     | 0.00018      | -0.00047     | 0.00074      | 0.00687      | 0.58   | 3%            |          |            |             |
| h 或 $\phi$ % | $L_p$        | $l_p'$       | $LA'$        | OSC'         | $x_1'$       | $x_2'$ | $x_1' - x_2'$ | $K_{T1}$ | $K_{T0.7}$ | $\Delta H'$ |
| 100          | -1.146       | -42          | -0.0016      | 0.0016       | -0.08        | 0.02   | -0.10         | -0.002   | -0.001     | 0.017       |
| 70           |              |              | -0.0008      | 0.0008       | -0.012       | 0.009  | -0.021        | 0.0006   | 0.0003     | 0.008       |



编号: 08-01-112

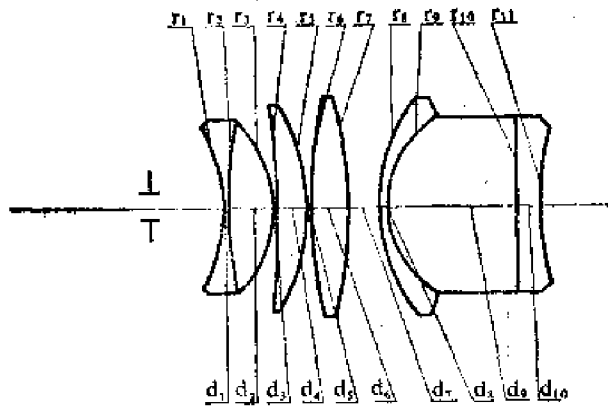
# 虚焦面 目 镜

E. F. L = 99.8

B. F. L = -12.8

$\phi_H/2 = 1^{**}$

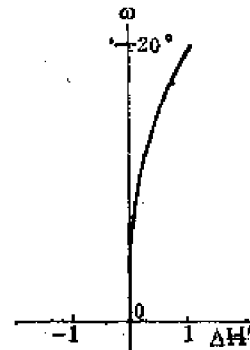
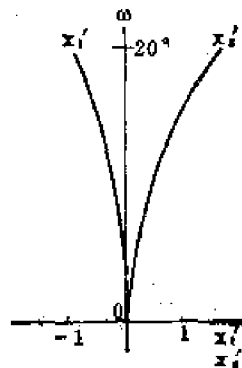
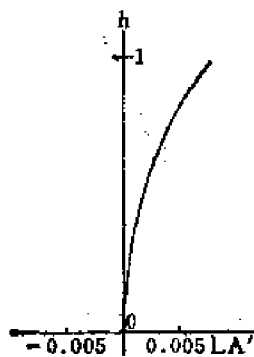
F. A. =  $\pm 20^{**}$



| 序号 | r        | d     | n      | v    |
|----|----------|-------|--------|------|
| 1  | -157.68  | 4.0   | 1.7297 | 28.3 |
| 2  | 507.78   | 41.2  | 1.6506 | 58.5 |
| 3  | -107.11  | 0.8   |        |      |
| 4  | -1331.20 | 26.4  | 1.5511 | 63.5 |
| 5  | -189.40  | 0.8   |        |      |
| 6  | 431.20   | 29.6  | 1.5511 | 63.5 |
| 7  | -431.20  | 29.4  |        |      |
| 8  | 164.04   | 6.4   | 1.6715 | 32.5 |
| 9  | 93.12    | 115.4 | 1.5600 | 61.2 |
| 10 | $\infty$ | 20.6  | 1.5600 | 61.2 |
| 11 | 241.60   |       |        |      |

|  |              |              |              |              |              |      |         |
|--|--------------|--------------|--------------|--------------|--------------|------|---------|
|  | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI   | QP(100) |
|  | 0            | 0.00002      | -0.00027     | 0.00062      | 0.02347      | 36.4 | 2.9%    |

|                |       |        |       |      |        |        |               |           |             |      |
|----------------|-------|--------|-------|------|--------|--------|---------------|-----------|-------------|------|
| h 或 $\omega\%$ | $L_p$ | $l'_p$ | LA'   | OSC' | $x'_i$ | $x'_s$ | $x'_i - x'_s$ | $K'_{T1}$ | $K'_{T0.7}$ | AIH' |
| 100            | -80** | 594    | 0.007 | 0    | -0.87  | 1.70   | -2.57         | 0.003     | 0.001       | 1.0  |
| 70             |       |        | 0.003 | 0    | -0.45  | 0.82   | -1.27         | 0.002     | 0.001       | 0.3  |



编号: 03-01-113

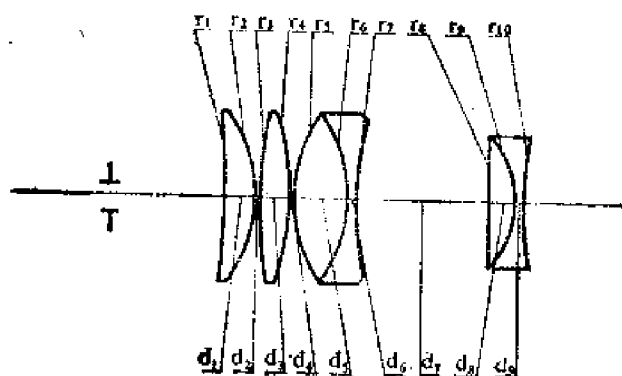
# 广角虚焦面目镜

E. F. L = 1 英寸

B. F. L = -0.866

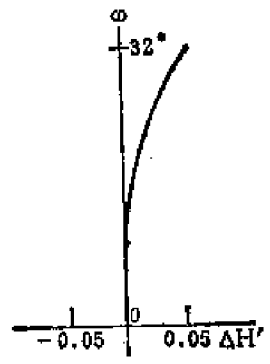
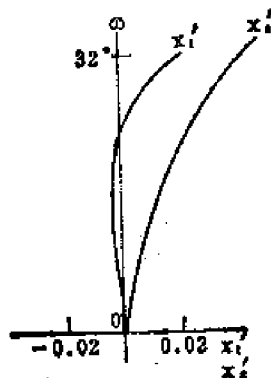
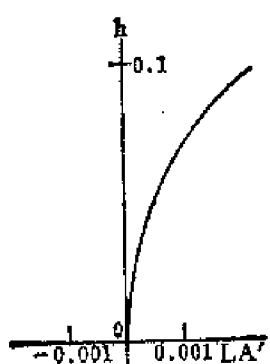
$\phi_{\text{出}}/2 = 0.1^{\circ}$

F. A. =  $\pm 32^{\circ}$



| 序号 | r        | d     | n     | v    |
|----|----------|-------|-------|------|
| 1  | -13.165  | 0.285 | 1.610 | 60.3 |
| 2  | -1.475   | 0.007 |       |      |
| 3  | 5.885    | 0.295 | 1.620 | 60.3 |
| 4  | -2.501   | 0.007 |       |      |
| 5  | 1.580    | 0.508 | 1.620 | 60.3 |
| 6  | -1.580   | 0.073 | 1.720 | 29.3 |
| 7  | 3.134    | 1.340 |       |      |
| 8  | $\infty$ | 0.283 | 1.720 | 29.3 |
| 9  | -0.976   | 0.063 | 1.620 | 60.3 |
| 10 | 3.050    |       |       |      |

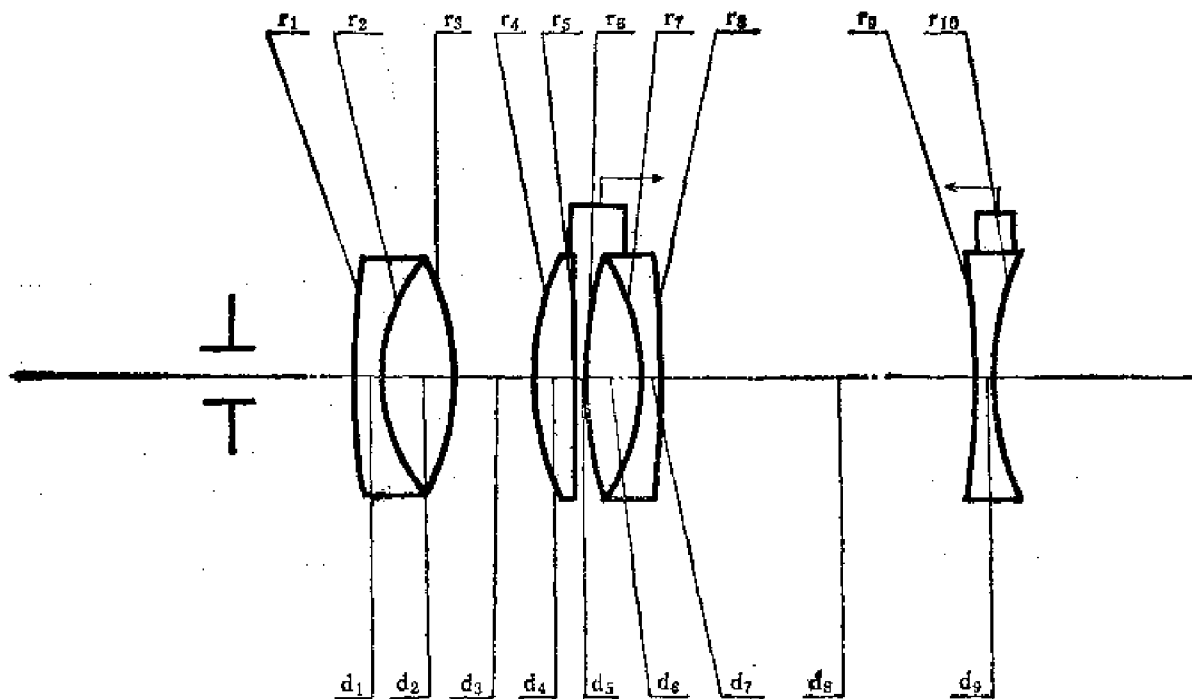
|                |              |              |              |              |              |        |                 |          |            |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|----------|------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |          |            |             |
|                | 0.03004      | 0.00038      | -0.00083     | 0.00174      | 0.01551      | 0.62   | 8.1%            |          |            |             |
| h 或 $\omega$ % | $L_p$        | $l_p$        | LA'          | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$   | $K_{f1}$ | $K_{f0.7}$ | $\Delta H'$ |
| 100            | -1.175       | 7.1          | 0.002        | 0.003        | 0.019        | 0.057  | -0.038          | 0.005    | 0.002      | 0.05        |
| 70             |              |              | 0.001        | 0.001        | -0.002       | 0.023  | -0.025          | 0.003    | 0.001      | 0.02        |



编号: 08-01-114

# 变焦距虚焦面目镜

E. F. L = 10~20 B. F. L = -14.53~-6.33  $\phi_H/2 = 1.2 \sim 2.8$  F. A. =  $\pm 25^\circ \sim \pm 18^\circ$



| 序 号 | r        | d     | n       | v    |
|-----|----------|-------|---------|------|
| 1   | 47.300   | 1.76  | 1.75520 | 27.5 |
| 2   | 15.500   | 6.22  | 1.64000 | 60.1 |
| 3   | -23.105  | *** 1 |         |      |
| 4   | 25.700   | 3.26  | 1.60311 | 60.7 |
| 5   | -900.522 | 0.20  |         |      |
| 6   | 40.950   | 4.69  | 1.72916 | 54.7 |
| 7   | -20.000  | 1.23  | 1.80518 | 25.4 |
| 8   | -287.692 | *** 2 |         |      |
| 9   | -52.000  | 1.23  | 1.51633 | 64.1 |
| 10  | 31.034   |       |         |      |

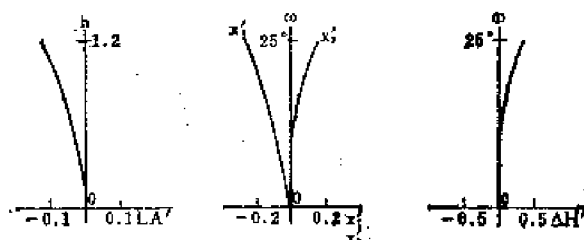
## 08-01-114-1

|                |              |              |              |              |              |        |               |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |           |             |             |
|                | - 0.0037     | 0.0059       | - 0.0107     | 0.0098       | 0.1100       | 4.6    | 7.6%          |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l_p$        | $LA'$        | $OSC'$       | $x'_1$       | $x'_2$ | $x'_1 - x'_2$ | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | - 10         | - 137        | - 0.13       | 0.095        | - 0.24       | 0.15   | - 0.39        | 0.025     | 0.012       | 0.35        |
| 70             |              |              | - 0.06       | 0.002        | - 0.19       | 0.04   | - 0.23        | 0.035     | 0.017       | 0.12        |

\*\*\* 1 = 6.97    \*\*\* 2 = 28.59

E. F. L = 10

B. F. L = -14.53

 $\phi_{出}/2 = 1.2$ F. A. =  $\pm 25^\circ$ 

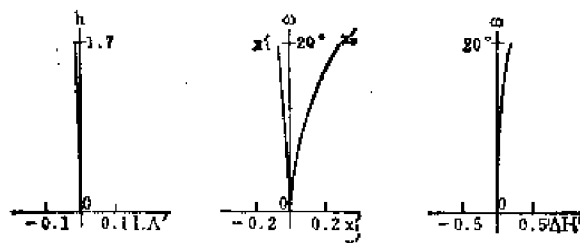
## 08-01-114-2

|                |              |              |              |              |              |        |               |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(100)       |           |             |             |
|                | -0.0002      | 0.0036       | -0.0060      | 0.0121       | 0.0514       | 5.4    | 3.4%          |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l_p$        | LA'          | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$ | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -10          | 2998         | -0.009       | 0.002        | -0.07        | 0.30   | -0.37         | 0.030     | 0.015       | 0.18        |
| 70             |              |              | -0.004       | 0.001        | -0.06        | 0.13   | -0.19         | 0.027     | 0.013       | 0.06        |

\*\*\* 1 = 15.9    \*\*\* 2 = 15.08

E. F. L = 15

B. F. L = -9.96

 $\phi_{出}/2 = 1.7$ F. A. =  $\pm 20^\circ$ 

## 08-01-114-3

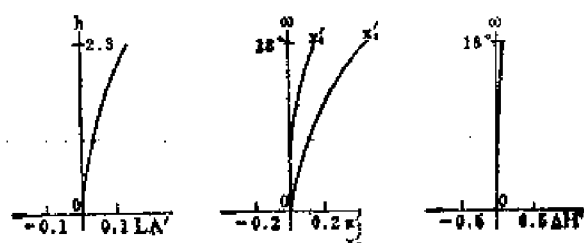
|  |              |              |              |              |              |     |         |
|--|--------------|--------------|--------------|--------------|--------------|-----|---------|
|  | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI  | QP(100) |
|  | 0.0036       | 0.0031       | -0.0053      | 0.0171       | 0.0292       | 6.4 | 1.6%    |

|                |       |       |       |       |        |        |               |           |             |             |
|----------------|-------|-------|-------|-------|--------|--------|---------------|-----------|-------------|-------------|
| h 或 $\omega$ % | $L_p$ | $l_p$ | $LA'$ | OSC'  | $x'_1$ | $x'_2$ | $x'_1 - x'_2$ | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -10   | -988  | 0.13  | 0.002 | 0.14   | 0.47   | -0.33         | 0.026     | 0.013       | 0.09        |
| 70             |       |       | 0.06  | 0.001 | 0.04   | 0.22   | -0.18         | 0.024     | 0.012       | 0.03        |

\*\*\* 1 = 21.27    \*\*\* 2 = 6.09

E. F. L = 20

B. F. L = -6.33

 $\phi_{出}/2 = 2.3$ F. A. =  $\pm 16^\circ$ 

编号: 08-01-115

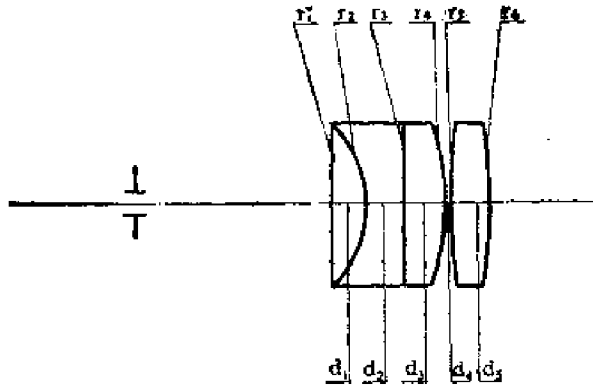
## 目 镜

E. F. L = 100

B. F. L = 98.2

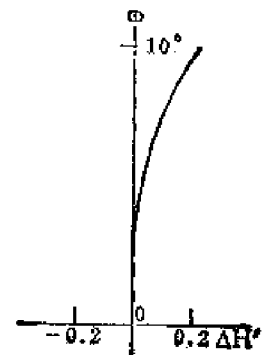
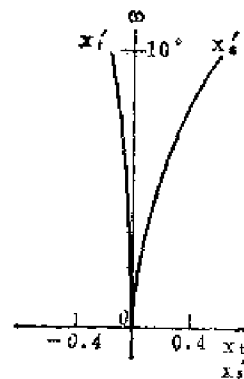
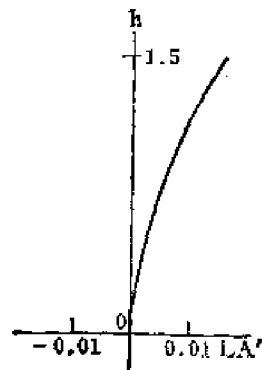
$\phi_{\text{出}}/2 = 1.5^{**}$

F. A. =  $\pm 10^{**}$



| 序号 | r        | d    | n      | v    |
|----|----------|------|--------|------|
| 1  | $\infty$ | 11.5 | 1.6053 | 43.6 |
| 2  | -42.1    | 13.4 | 1.7260 | 29.3 |
| 3  | $\infty$ | 13.4 | 1.6170 | 55.0 |
| 4  | -92.9    | 0.2  |        |      |
| 5  | 215.8    | 13.8 | 1.6170 | 55.0 |
| 6  | -215.8   |      |        |      |

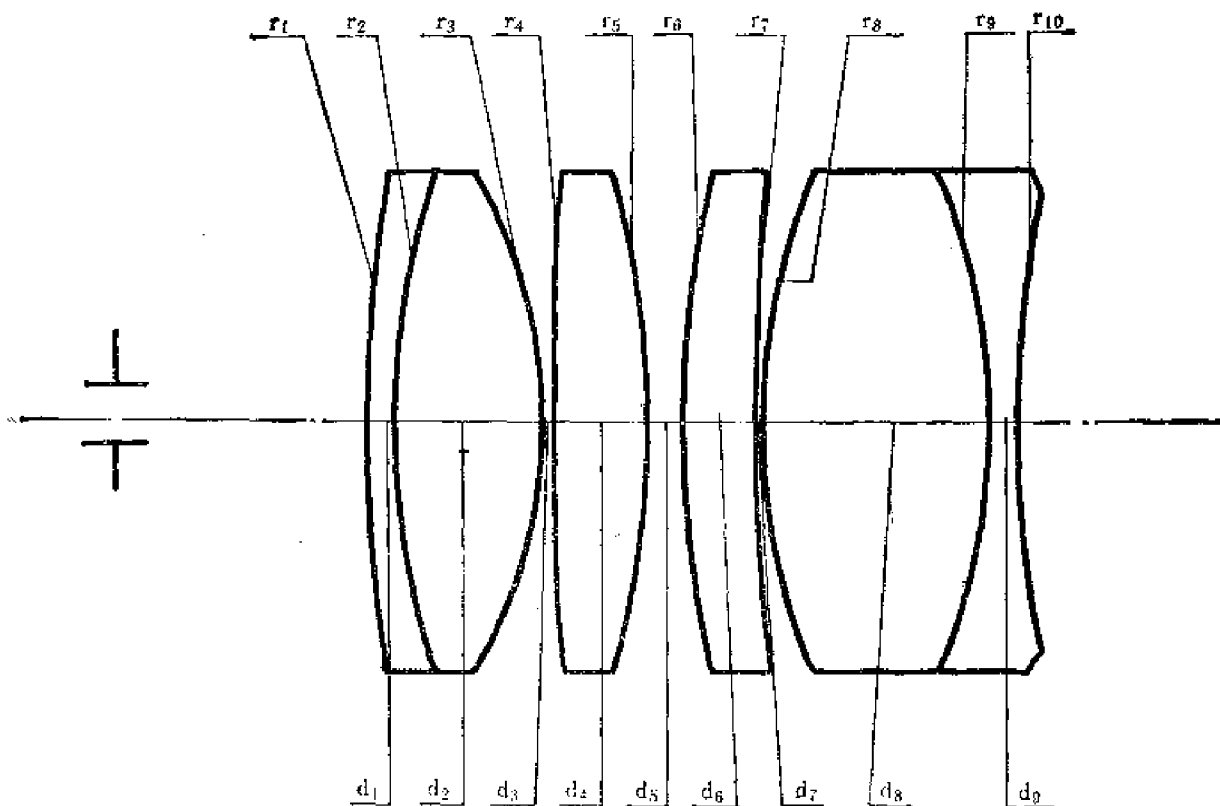
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | 0            | 0.00001      | -0.00017     | 0.00046      | 0.00357      | 17.6   | 1.3%            |           |             |             |
| h 或 $\omega$ % | $I_p$        | $I'_p$       | LA'          | OSC'         | $x'_i$       | $x'_s$ | $x'_i - x'_s$   | $K'_{f1}$ | $K'_{10.7}$ | $\Delta H'$ |
| 100            | -70.8        | $-\infty$    | 0.016        | 0            | -0.19        | 0.62   | -0.81           | 0.0007    | 0.0003      | 0.23        |
| 70             |              |              | 0.008        | 0            | -0.08        | 0.31   | -0.39           | 0.0006    | 0.0002      | 0.08        |



编号: 08-01-116

## 广角内调焦目镜

E. F. L = 94.5 ~ 103.7    B. F. L = 27.4 ~ 3     $\phi_{\text{出}}/2 = 1^{**} \sim 1.2^{**}$   
 F. A. =  $\pm 34^{**} \sim \pm 30^{**}$



| 序 号 | r         | d      | n       | v    |
|-----|-----------|--------|---------|------|
| 1   | 5724.138  | 6.897  | 1.80518 | 25.5 |
| 2   | 218.138   | 37.931 | 1.65160 | 58.5 |
| 3   | -126.986  | 1.379  |         |      |
| 4   | 11046.900 | 24.138 | 1.62041 | 60.3 |
| 5   | -232.759  | *** 1  |         |      |
| 6   | 266.414   | 20.690 | 1.62041 | 60.3 |
| 7   | 5551.724  | 1.379  |         |      |
| 8   | 186.207   | 58.621 | 1.62041 | 60.3 |
| 9   | -152.331  | 6.897  | 1.80518 | 25.5 |
| 10  | 334.004   |        |         |      |



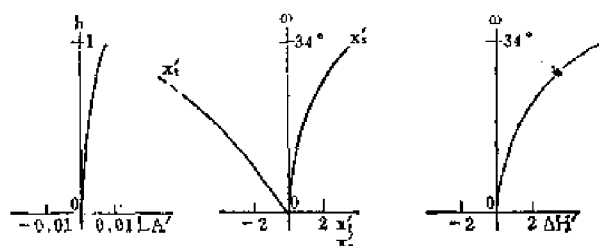
## 08-01-116-1

|                |              |              |              |              |              |        |                 |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|                | 0            | 0.00001      | -0.00200     | 0.00286      | 0.18593      | 63.7   | 9%              |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l_p$        | LA'          | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$   | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -65**        | -1932        | 0.007        | 0            | -14.1        | 3.4    | -17.5           | 0.0022    | 0.0011      | 6.0         |
| 70             |              |              | 0.003        | 0            | -5.9         | 1.6    | -7.5            | 0.0016    | 0.0008      | 2.1         |

\*\*\* 1 = 6.897

E. F. L = 94.5

B. F. L = 27.4

 $\phi_H/2 = 1^{**}$ F. A. =  $\pm 34^{**}$ 

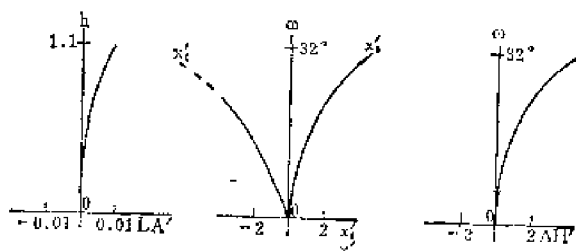
## 08-01-116-2

|                |              |              |              |              |              |        |                 |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | III    | QP(1 $\omega$ ) |           |             |             |
|                | 0            | 0.00002      | -0.00185     | 0.00297      | 0.15180      | 61.8   | 8%              |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l_p$        | LA'          | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$   | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -65**        | -3329        | 0.009        | 0            | -9.5         | 4.3    | -13.8           | 0.0033    | 0.0016      | 4.9         |
| 70             |              |              | 0.004        | 0            | -4.3         | 1.9    | -6.2            | 0.0024    | 0.0012      | 1.7         |

\*\*\* 1 = 31.034

E. F. L = 98.9

B. F. L = 15.8

 $\phi_H/2 = 1.1^{**}$ F. A. =  $\pm 32^{**}$ 

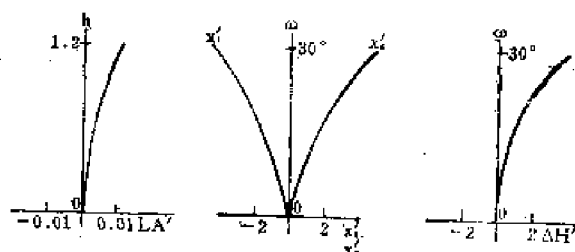
## 08-01-116-3

|                |              |              |              |              |              |         |                 |           |             |             |  |
|----------------|--------------|--------------|--------------|--------------|--------------|---------|-----------------|-----------|-------------|-------------|--|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI      | QP(1 $\omega$ ) |           |             |             |  |
|                | 0            | 0.00003      | -0.00159     | 0.00302      |              | 0.12105 | 59.8            | 6.7%      |             |             |  |
| h 或 $\omega$ % | $l_p$        | $l_p$        | LA'          | OSC'         | $x'_1$       | $x'_2$  | $x'_1 - x'_2$   | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |  |
| 100            | -65**        | -9525        | 0.010        | 0            | -5.1         | 5.2     | -10.3           | 0.004     | 0.002       | 4.0         |  |
| 70             |              |              | 0.005        | 0            | -2.6         | 2.4     | -5.0            | 0.003     | 0.001       | 1.4         |  |

\*\*\* 1 = 55.172

E. F. L = 103.7

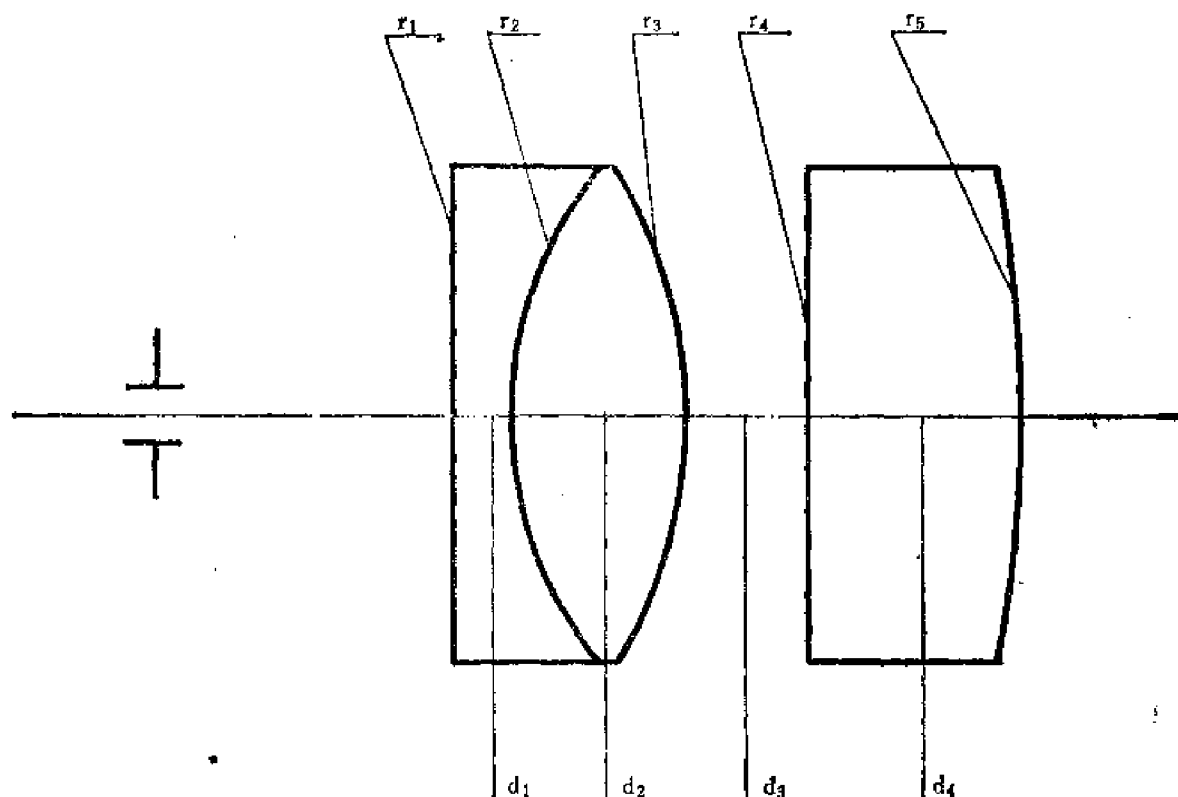
B. F. L = 3.0

 $\phi_H/2 = 1.2^{**}$ F. A. =  $\pm 30^{**}$ 

编号: 08-01-117

## 变 焦 距 目 镜

E. F. L = 0.5 ~ 1    B. F. L = 0.41 ~ -0.56     $\phi_m/2 = 0.1^{**} \sim 0.2^{**}$   
F. A. =  $\pm 10^{\circ **} \sim \pm 10^{\circ **}$



| 序 号 | r        | d     | n     | v    |
|-----|----------|-------|-------|------|
| 1   | $\infty$ | 0.036 | 1.617 | 36.6 |
| 2   | 0.234    | 0.108 | 1.517 | 64.5 |
| 3   | -0.290   | *** 1 |       |      |
| 4   | $\infty$ | 0.126 | 1.617 | 36.6 |
| 5   | -0.854   |       |       |      |

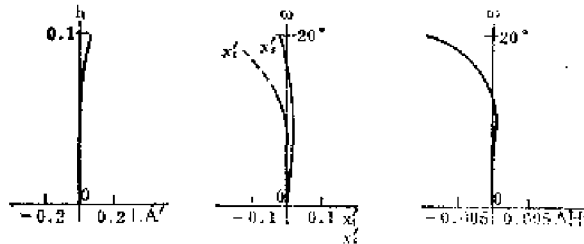
## 08-01-117-1

|                |              |              |              |              |              |        |                 |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|                | 0.0040       | 0.0029       | 0.0005       | 0.0019       | -0.0009      | 0.18   | -7.3%           |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l_p$        | $LA'$        | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$   | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -0.35        | 27.8         | 0.051        | 0.039        | -1.66        | -0.02  | -1.64           | 0.111     | 0.109       | -0.01       |
| 70             |              |              | 0.025        | 0.019        | -0.023       | 0.007  | -0.030          | 0.067     | -0.012      | -0.0001     |

\*\*\* 1 = 0.073

E. F. L = 0.5

B. F. L = 0.41

 $\phi_{H/2} = 0.1^{**}$ F. A. =  $\pm 20^{**}$ 

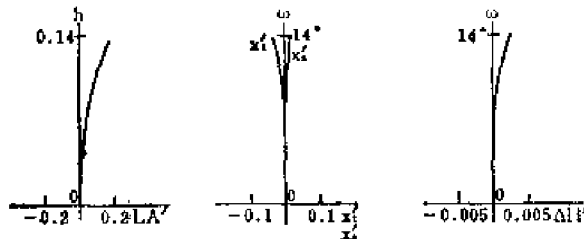
## 08-01-117-2

|                |              |              |              |              |              |        |                 |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|                | 0.0120       | 0.00005      | -0.0010      | 0.0017       | -0.0001      | 0.17   | 1.4%            |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l_p$        | $LA'$        | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$   | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -0.18        | -9.1         | 0.17         | -0.009       | -0.027       | 0.006  | -0.033          | 0.057     | -0.012      | 0.0025      |
| 70             |              |              | 0.08         | -0.001       | -0.010       | 0.003  | -0.013          | -0.032    | -0.004      | 0.0009      |

\*\*\* 1 = 0.648

E. F. L = 0.707

B. F. L = 0.005

 $\phi_{H/2} = 0.14^{**}$ F. A. =  $\pm 14^{**}$ 

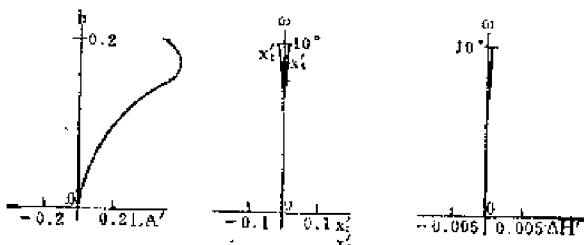
## 08-01-117-3

|                |              |              |              |              |              |        |                 |           |             |             |
|----------------|--------------|--------------|--------------|--------------|--------------|--------|-----------------|-----------|-------------|-------------|
|                | $\Sigma S_1$ | $\Sigma S_2$ | $\Sigma S_3$ | $\Sigma S_4$ | $\Sigma S_5$ | HI     | QP(1 $\omega$ ) |           |             |             |
|                | 0.0518       | 0.0071       | -0.0003      | 0.0018       | -0.0003      | 0.17   | 0.19%           |           |             |             |
| h 或 $\omega$ % | $L_p$        | $l_p$        | $LA'$        | OSC'         | $x'_1$       | $x'_2$ | $x'_1 - x'_2$   | $K'_{T1}$ | $K'_{T0.7}$ | $\Delta H'$ |
| 100            | -0.35        | 3.2          | 0.52         | -0.05        | -0.02        | 0.01   | -0.03           | 0.085     | 0.120       | 0.0003      |
| 70             |              |              | 0.40         | 0.05         | -0.002       | 0.007  | -0.009          | 0.038     | -0.043      | 0.0002      |

\*\*\* 1 = 1.055

E. F. L = 1

B. F. L = -0.56

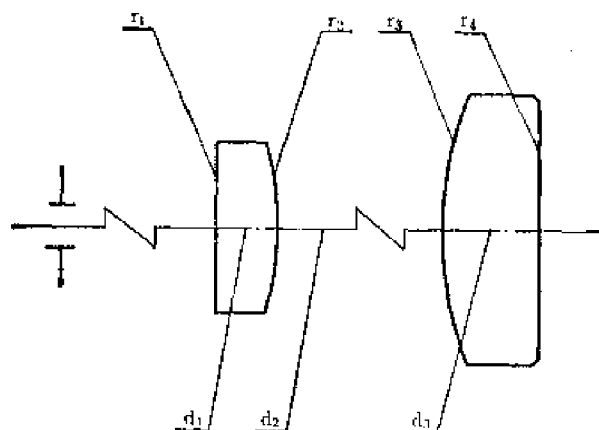
 $\phi_{H/2} = 0.2^{**}$ F. A. =  $\pm 10^{**}$ 

# 附录

编号: 08-01-M1

## 简单目镜

E. F. L = 25.64 B. F. L = 4.47  $\phi_{\text{出}}/2 = 0.7$  F. A. =  $\pm 15^\circ$   $L_p = -12.5$

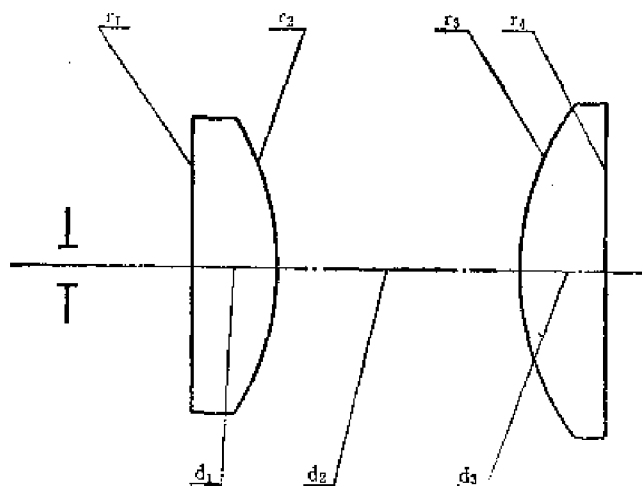


| 序号 | r        | d     | n      | v    |
|----|----------|-------|--------|------|
| 1  | $\infty$ | 3.20  | 1.5163 | 64.1 |
| 2  | -16.56   | 22.36 |        |      |
| 3  | 20.00    | 5.00  | 1.5163 | 64.1 |
| 4  | $\infty$ |       |        |      |

编号: 08-01-M2

## 简单目镜

E. F. L = 16 B. F. L = 6.44  $\phi_{\text{出}}/2 = 0.875$  F. A. =  $\pm 12^\circ$   $L_p = -3.3$

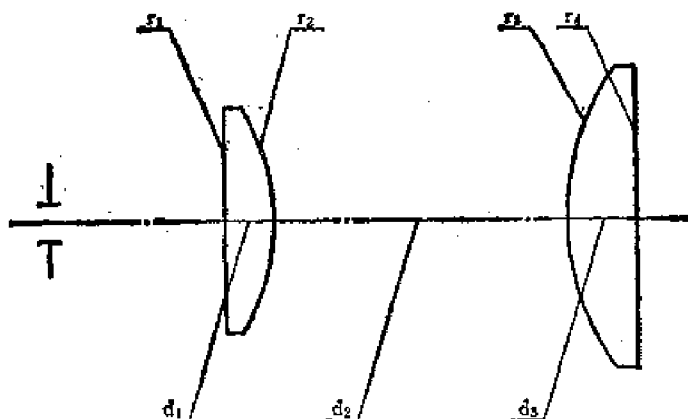


| 序号 | r        | d    | n      | v    |
|----|----------|------|--------|------|
| 1  | $\infty$ | 3.8  | 1.5163 | 64.1 |
| 2  | -12.88   | 11.0 |        |      |
| 3  | 12.88    | 3.8  | 1.5163 | 64.1 |
| 4  | $\infty$ |      |        |      |

编号: 08-01-M3

## 简单目镜

E. F. L = 12.82    B. F. L = 2.22     $\phi_{\text{出}}/2 = 1$     F. A. =  $\pm 8^\circ$      $L_p = -7$

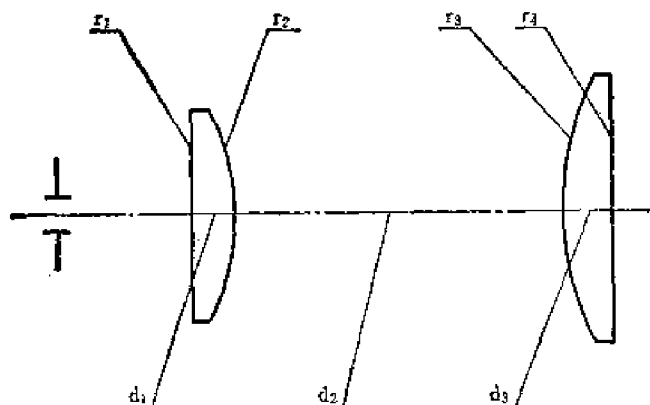


| 序 号 | r        | d     | n      | v    |
|-----|----------|-------|--------|------|
| 1   | $\infty$ | 1.60  | 1.5163 | 64.1 |
| 2   | -8.27    | 11.18 |        |      |
| 3   | 10.00    | 2.50  | 1.5163 | 64.1 |
| 4   | $\infty$ |       |        |      |

编号: 08-01-M4

## 简单目镜

E. F. L = 10.01    B. F. L = 2.21     $\phi_{\text{出}}/2 = 1$     F. A. =  $\pm 15^\circ$      $L_p = -3.5$

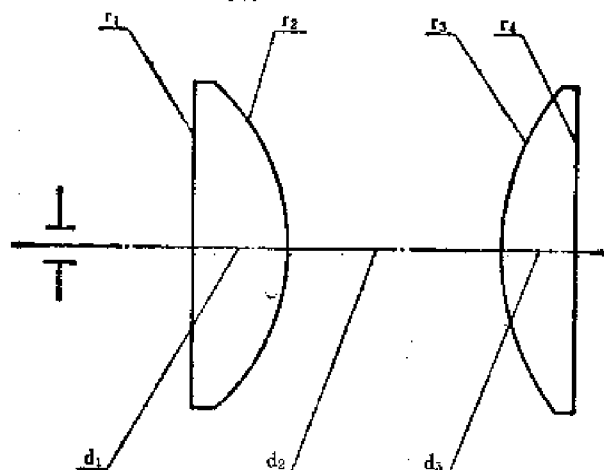


| 序 号 | r        | d    | n      | v    |
|-----|----------|------|--------|------|
| 1   | $\infty$ | 0.96 | 1.5163 | 64.1 |
| 2   | -6.411   | 8.68 |        |      |
| 3   | 8.014    | 1.22 | 1.5163 | 64.1 |
| 4   | $\infty$ |      |        |      |

编号: 08-01-M5

## 简单目镜

E.F.L=8.11    B.F.L=2.71     $\phi_{出}/2=0.61$     F.A. =  $\pm 15'$      $L_p = -3.15$

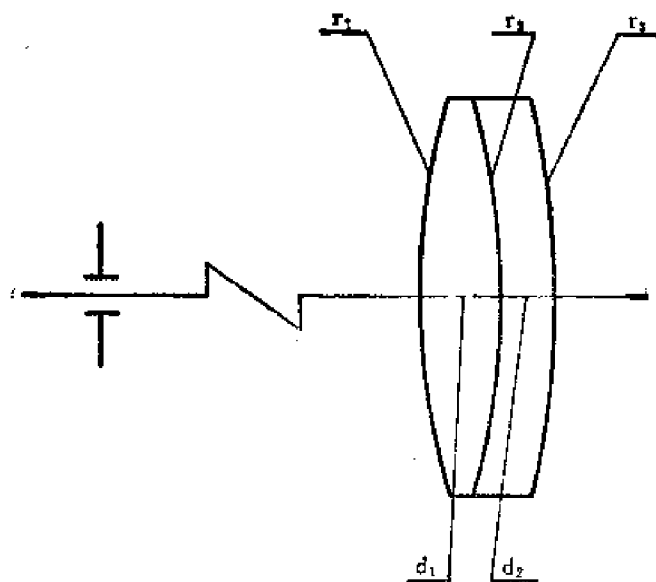


| 序号 | r        | d   | n      | v    |
|----|----------|-----|--------|------|
| 1  | $\infty$ | 2.5 | 1.5163 | 64.1 |
| 2  | -5.85    | 5.7 |        |      |
| 3  | 7.31     | 2.0 | 1.5163 | 64.1 |
| 4  | $\infty$ |     |        |      |

编号: 08-01-M6

## 简单目镜

E.F.L=112.83    B.F.L=107.11     $\phi_{出}/2=2.05$     F.A. =  $\pm 6' 15''$      $L_p = -93.70$

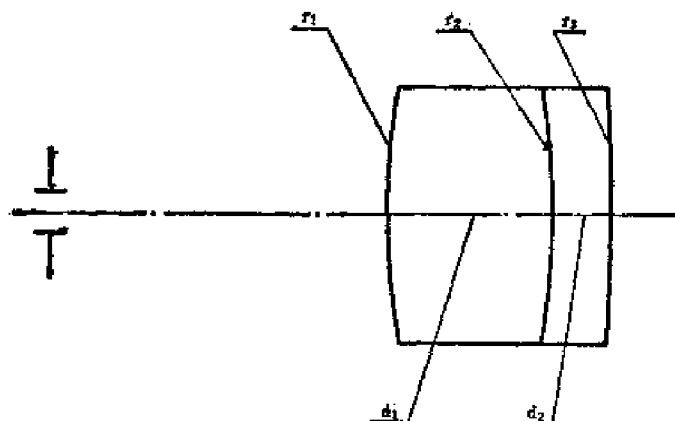


| 序号 | r       | d   | n      | v    |
|----|---------|-----|--------|------|
| 1  | 66.37   | 7.3 | 1.5163 | 64.1 |
| 2  | -59.84  | 5.0 | 1.7172 | 29.5 |
| 3  | -157.76 |     |        |      |

编号: 08-01-M7

## 简单目镜

E. F. L = 67.21    B. F. L = 61.40     $\phi_{\text{出}}/2 = 6$     F. A. =  $\pm 6^\circ$      $L_p = -16.00$

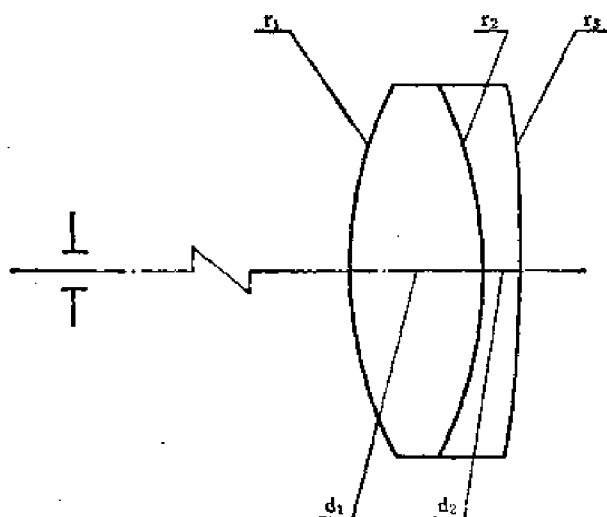


| 序 号 | r       | d   | n      | v    |
|-----|---------|-----|--------|------|
| 1   | 38.34   | 7.5 | 1.5688 | 58.0 |
| 2   | -33.80  | 2.5 | 1.7172 | 29.5 |
| 3   | -156.62 |     |        |      |

编号: 08-01-M8

## 简单目镜

E. F. L = 45.68    B. F. L = 39.88     $\phi_{\text{出}}/2 = 8$     F. A. =  $\pm 12.5^\circ$      $L_p = -44.09$

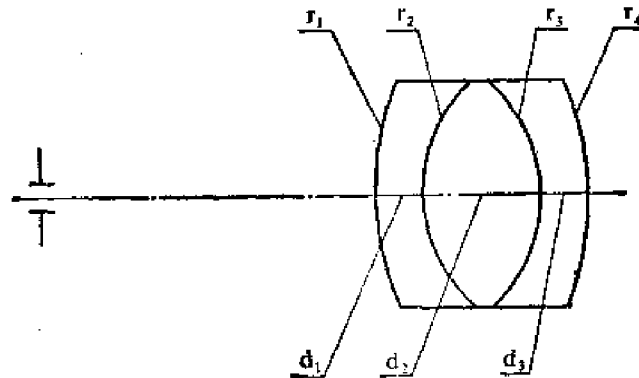


| 序 号 | r       | d | n      | v    |
|-----|---------|---|--------|------|
| 1   | 22.66   | 7 | 1.5163 | 64.1 |
| 2   | -22.66  | 2 | 1.6475 | 33.9 |
| 3   | -123.52 |   |        |      |

编号: 08-01-M9

## 简单目镜

E. F. L = 41.69 B. F. L = 33.20  $\phi_{出}/2 = 3$  F. A. =  $\pm 16.5^\circ$   $L_p = -33.2$

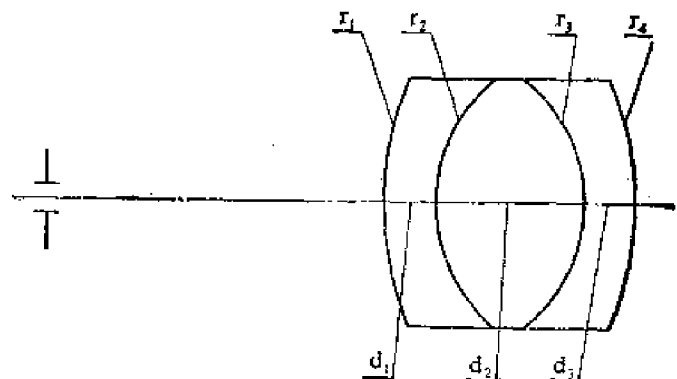


| 序 号 | r      | d    | n      | v    |
|-----|--------|------|--------|------|
| 1   | 30.76  | 4.6  | 1.6242 | 35.9 |
| 2   | 15.24  | 13.8 | 1.5163 | 64.1 |
| 3   | -15.24 | 4.6  | 1.6242 | 35.9 |
| 4   | -30.76 |      |        |      |

编号: 08-01-M10

## 简单目镜

E. F. L = 25.83 B. F. L = 20.46  $\phi_{出}/2 = 2$  F. A. =  $\pm 17^\circ$   $L_p = -20.46$



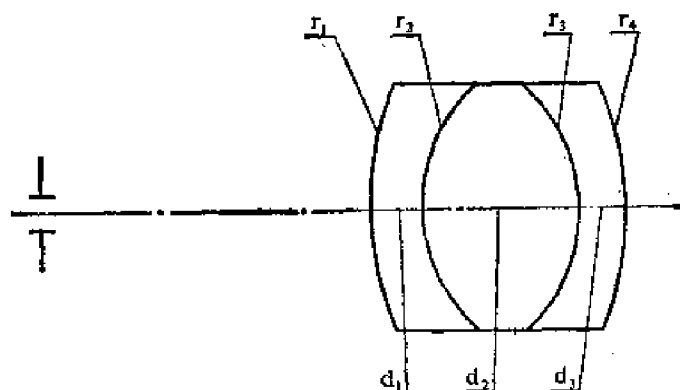
| 序 号 | r      | d   | n      | v    |
|-----|--------|-----|--------|------|
| 1   | 19.06  | 3.0 | 1.6242 | 35.9 |
| 2   | 9.48   | 8.5 | 1.5163 | 64.1 |
| 3   | -9.48  | 3.0 | 1.6242 | 35.9 |
| 4   | -19.06 |     |        |      |



编号: 08-01-M11

## 简单目镜

E. F. L = 22.55   B. F. L = 17.93    $\phi_{\text{出}}/2 = 2$    F. A. =  $\pm 15.5^\circ$     $L_p = -17.49$

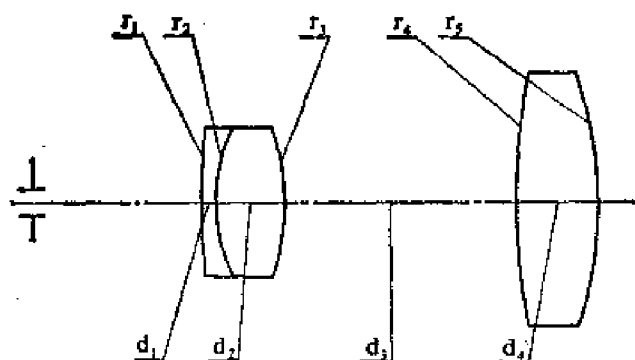


| 序 号 | r       | d   | n      | v    |
|-----|---------|-----|--------|------|
| 1   | 16.630  | 2.5 | 1.6242 | 35.9 |
| 2   | 8.241   | 7.5 | 1.5163 | 64.1 |
| 3   | -8.241  | 2.5 | 1.6242 | 35.9 |
| 4   | -16.630 |     |        |      |

编号: 08-01-M12

## 一般目镜

E. F. L = 49.98   B. F. L = 17.93    $\phi_{\text{出}}/2 = 2$    F. A. =  $\pm 20^\circ$     $L_p = -25$

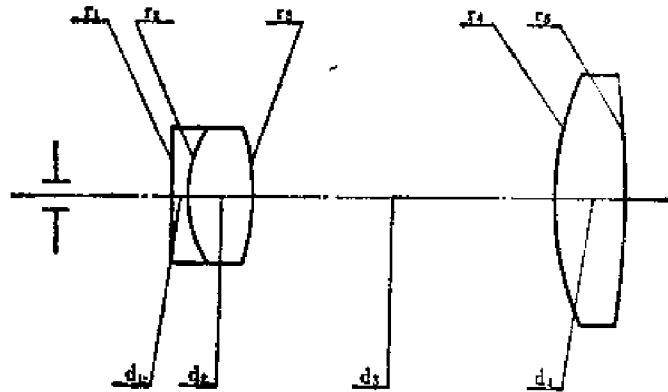


| 序 号 | r      | d    | n      | v    |
|-----|--------|------|--------|------|
| 1   | 144.54 | 2.5  | 1.6475 | 33.9 |
| 2   | 27.04  | 9.5  | 1.5399 | 59.7 |
| 3   | -36.31 | 33.3 |        |      |
| 4   | 133.05 | 12.0 | 1.5163 | 64.1 |
| 5   | -61.94 |      |        |      |

编号: 08-01-M13

## 一般目镜

E.F.L=39.52 B.F.L=4.70  $\phi_{\text{目}}/2=0.85$  F.A. =  $\pm 20'$   $L_p = -13.1$

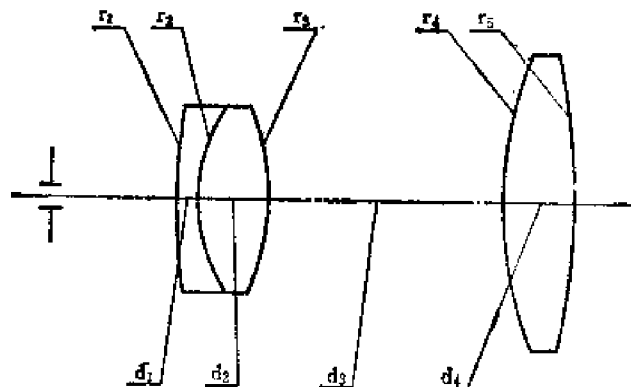


| 序号 | r        | d     | n      | v    |
|----|----------|-------|--------|------|
| 1  | $\infty$ | 1.60  | 1.6199 | 36.3 |
| 2  | 15.06    | 6.75  | 1.6220 | 56.7 |
| 3  | -28.99   | 35.50 |        |      |
| 4  | 37.40    | 7.00  | 1.5163 | 64.1 |
| 5  | -121.43  |       |        |      |

编号: 08-01-M14

## 一般目镜

E.F.L=25.01 B.F.L=8.60  $\phi_{\text{目}}/2=0.5$  F.A. =  $\pm 24'$   $L_p = -9.67$

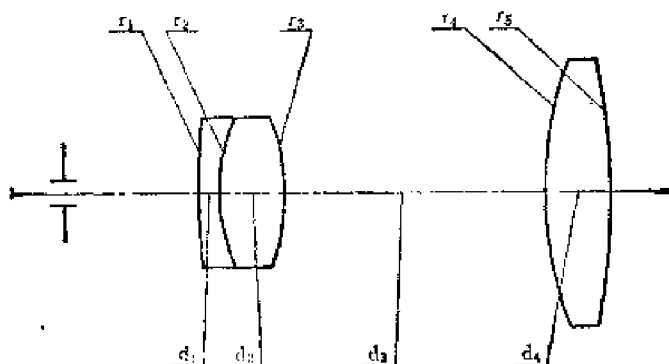


| 序号 | r       | d    | n      | v    |
|----|---------|------|--------|------|
| 1  | 96.160  | 1.5  | 1.6199 | 36.3 |
| 2  | 13.709  | 5.0  | 1.5399 | 59.7 |
| 3  | -18.707 | 18.0 |        |      |
| 4  | 31.990  | 5.0  | 1.5163 | 64.1 |
| 5  | -55.340 |      |        |      |

编号: 08-01-M15

## 一般目镜

E. F. L = 21.81    B. F. L = 6.01     $\phi_{\text{目}}/2 = 2$     F. A. =  $\pm 22^\circ$      $L_p = -0.39$

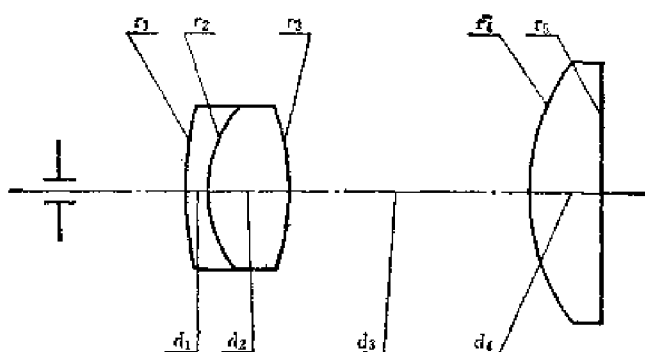


| 序 号 | r       | d    | n      | v    |
|-----|---------|------|--------|------|
| 1   | 80.720  | 1.3  | 1.6199 | 36.3 |
| 2   | 11.590  | 4.2  | 1.5399 | 59.7 |
| 3   | -15.596 | 17.0 |        |      |
| 4   | 28.630  | 4.2  | 1.5163 | 64.1 |
| 5   | -46.580 |      |        |      |

编号: 08-01-M16

## 一般目镜

E. F. L = 15.37    B. F. L = 2.69     $\phi_{\text{目}}/2 = 2$     F. A. =  $\pm 20^\circ$      $L_p = -0.5$

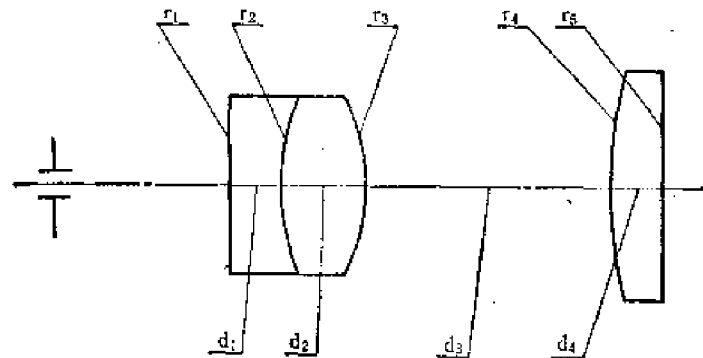


| 序 号 | r        | d     | n      | v    |
|-----|----------|-------|--------|------|
| 1   | 72.480   | 1.10  | 1.6199 | 36.3 |
| 2   | 6.699    | 4.22  | 1.6088 | 58.9 |
| 3   | -13.550  | 12.66 |        |      |
| 4   | 12.050   | 3.70  | 1.5163 | 64.1 |
| 5   | $\infty$ |       |        |      |

编号: 08-01-M17

## 一般目镜

E. F. L = 10.01    B. F. L = 3.34     $\phi_{\text{出}}/2 = 0.75$     F. A. =  $\pm 15'$      $L_p = -5.3$

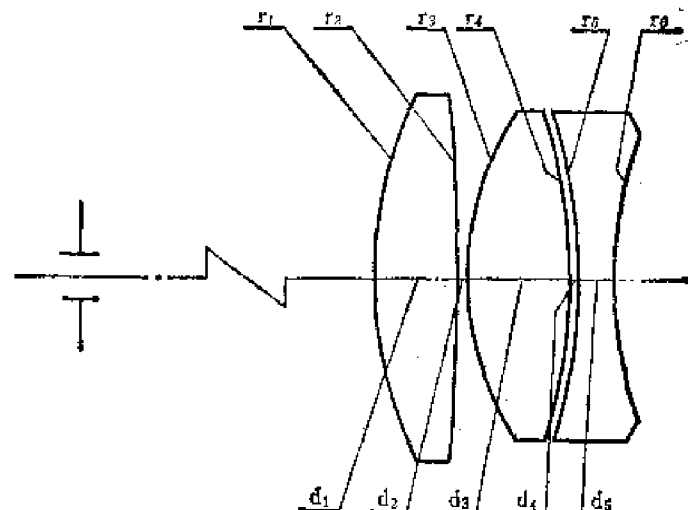


| 序号 | r        | d   | n      | v    |
|----|----------|-----|--------|------|
| 1  | $\infty$ | 1.5 | 1.6475 | 33.9 |
| 2  | 7.01     | 2.3 | 1.5467 | 62.8 |
| 3  | -5.86    | 7.3 |        |      |
| 4  | 12.39    | 1.5 | 1.5467 | 62.8 |
| 5  | $\infty$ |     |        |      |

编号: 08-01-M18

## 一般目镜

E. F. L = 61.5    B. F. L = 40.2     $\phi_{\text{出}}/2 = 3$     F. A. =  $\pm 7'$      $L_p = -156$

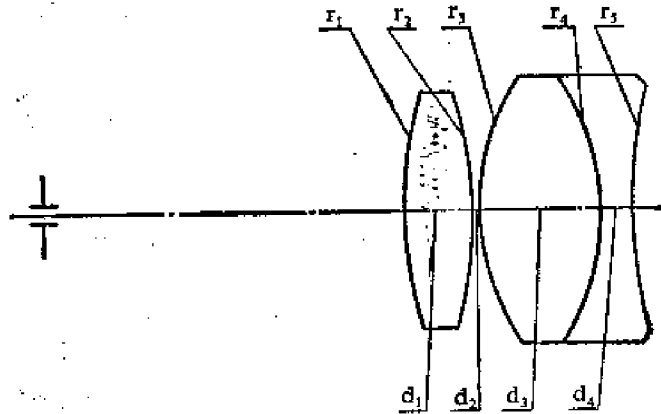


| 序号 | r       | d     | n      | v    |
|----|---------|-------|--------|------|
| 1  | 46.32   | 7.80  | 1.5163 | 64.1 |
| 2  | -253.98 | 1.40  |        |      |
| 3  | 33.32   | 11.50 | 1.5163 | 64.1 |
| 4  | -60.90  | 0.03  |        |      |
| 5  | -60.90  | 3.90  | 1.6475 | 33.9 |
| 6  | 44.21   |       |        |      |

编号: 08-01-M19

## 一般目镜

E. F. L = 38.77    B. F. L = 19.30     $\phi_{\text{目}}/2 = 2.8$     F. A. =  $\pm 15^\circ$      $L_p = -40.00$

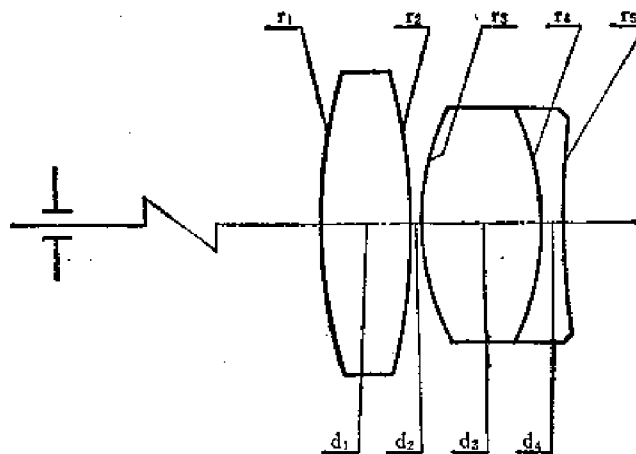


| 序号 | r      | d    | n       | v    |
|----|--------|------|---------|------|
| 1  | 50.14  | 8.0  | 1.51630 | 64.1 |
| 2  | -50.14 | 0.5  |         |      |
| 3  | 29.04  | 14.0 | 1.51630 | 64.1 |
| 4  | -29.04 | 3.5  | 1.61750 | 33.9 |
| 5  | 50.14  |      |         |      |

编号: 08-01-M20

## 一般目镜

E. F. L = 29.99    B. F. L = 19.20     $\phi_{\text{目}}/2 = 3$     F. A. =  $\pm 8^\circ$      $L_p = -71.50$

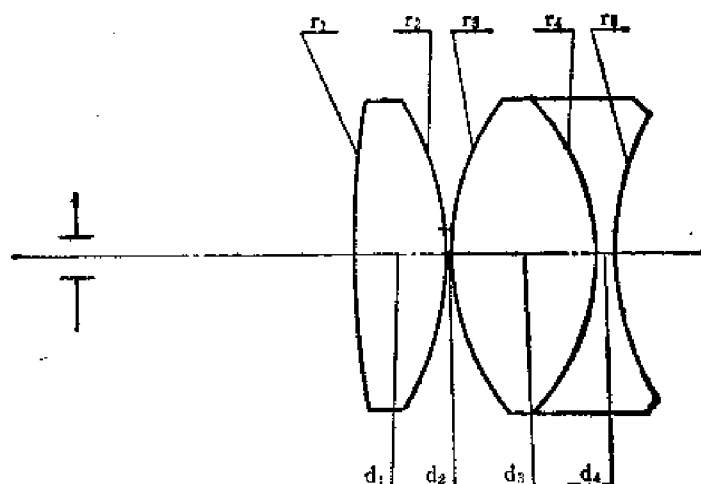


| 序号 | r      | d   | n      | v    |
|----|--------|-----|--------|------|
| 1  | 48.34  | 5.5 | 1.5163 | 64.1 |
| 2  | -48.34 | 1.0 |        |      |
| 3  | 22.62  | 9.0 | 1.5163 | 64.1 |
| 4  | -22.62 | 2.0 | 1.6242 | 35.9 |
| 5  | 69.16  |     |        |      |

编号: 08-01-M21

## 一般目镜

E. F. L = 23.00    B. F. L = 11.73     $\phi_{\text{目}}/2 = 1$     F. A. =  $\pm 25^\circ$      $L_p = -20.16$

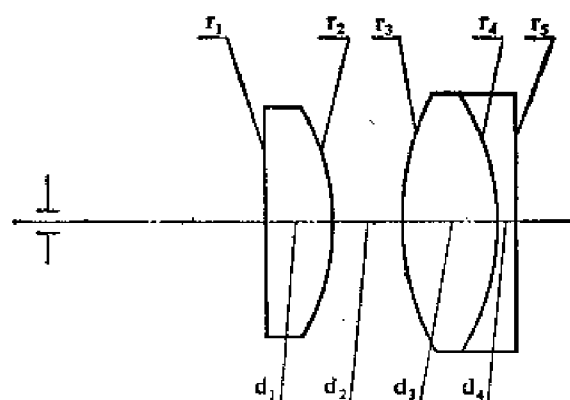


| 序 号 | r      | d     | n      | v    |
|-----|--------|-------|--------|------|
| 1   | 91.62  | 6.60  | 1.6076 | 46.1 |
| 2   | -22.08 | 0.14  |        |      |
| 3   | 20.04  | 10.00 | 1.6222 | 53.1 |
| 4   | -16.44 | 2.00  | 1.7550 | 27.5 |
| 5   | 25.12  |       |        |      |

编号: 08-01-M22

## 一般目镜

E. F. L = 20.48    B. F. L = 11.28     $\phi_{\text{目}}/2 = 1$     F. A. =  $\pm 25^\circ$      $L'_p = -16.08$

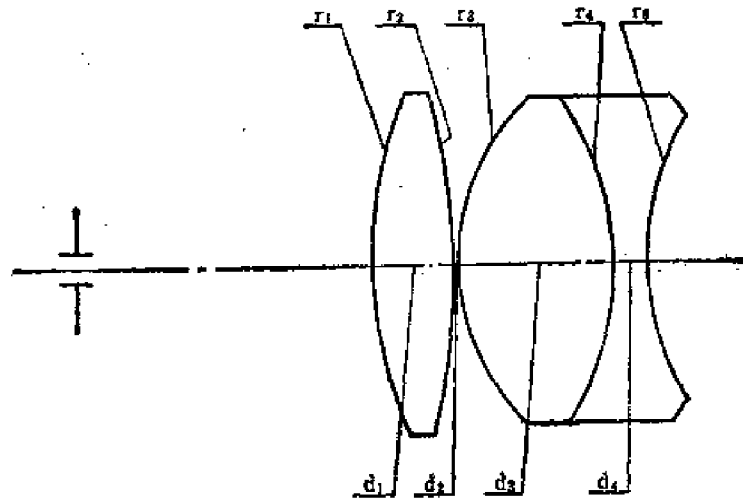


| 序 号 | r        | d   | n      | v    |
|-----|----------|-----|--------|------|
| 1   | $\infty$ | 5.0 | 1.5467 | 62.8 |
| 2   | -17.06   | 6.0 |        |      |
| 3   | 20.51    | 7.0 | 1.5467 | 62.8 |
| 4   | -18.03   | 1.5 | 1.7172 | 29.5 |
| 5   | $\infty$ |     |        |      |

编号: 08-01-M23

## 一般目镜

E. F. L = 18.61    B. F. L = 7.95     $\phi_H/2 = 3.5$     F. A. =  $\pm 12^\circ$      $L_p = -25.00$

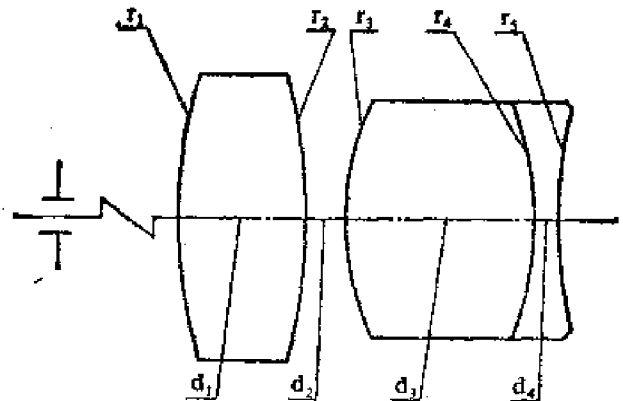


| 序 号 | r       | d   | n      | v    |
|-----|---------|-----|--------|------|
| 1   | 24.210  | 4.5 | 1.5163 | 64.1 |
| 2   | -38.730 | 0.1 |        |      |
| 3   | 11.803  | 8.5 | 1.5163 | 64.1 |
| 4   | -16.144 | 2.0 | 1.6242 | 35.9 |
| 5   | 15.276  |     |        |      |

编号: 08-01-M24

## 一般目镜

E. F. L = 18.72    B. F. L = 6.00     $\phi_H/2 = 1$     F. A. =  $\pm 16^\circ$      $L_p = -17.64$

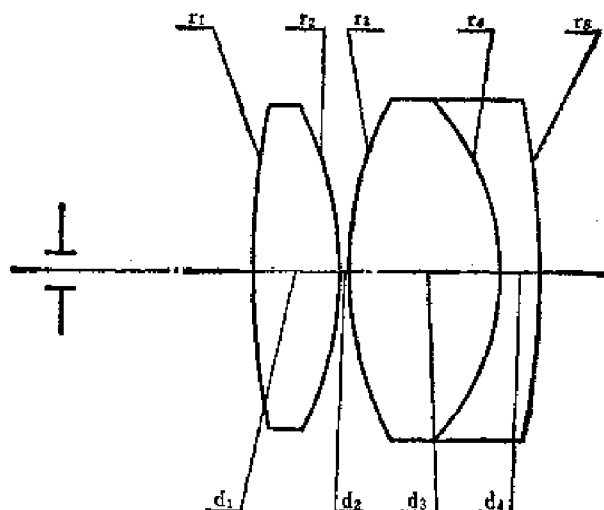


| 序 号 | r       | d   | n      | v    |
|-----|---------|-----|--------|------|
| 1   | 21.230  | 5.4 | 1.5163 | 64.1 |
| 2   | -24.380 | 1.7 |        |      |
| 3   | 12.162  | 8.4 | 1.5163 | 64.1 |
| 4   | -14.158 | 1.0 | 1.7530 | 27.5 |
| 5   | 21.230  |     |        |      |

编号: 08-01-M25

## 一般目镜

E. F. L = 15.59    B. F. L = 8.07     $\phi_{\text{出}}/2 = 2$     F. A. =  $\pm 33^\circ$      $L_p = -11.71$

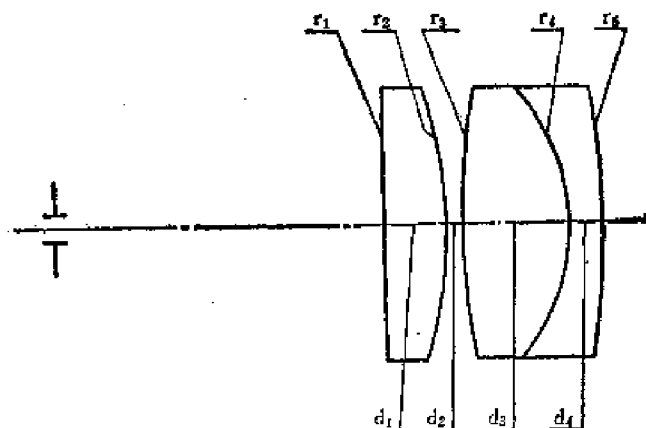


| 序号 | r        | d   | n      | v    |
|----|----------|-----|--------|------|
| 1  | 54.200   | 5.0 | 1.6126 | 58.3 |
| 2  | -20.460  | 0.4 |        |      |
| 3  | 21.880   | 8.7 | 1.6126 | 58.3 |
| 4  | -14.488  | 2.0 | 1.7398 | 28.2 |
| 5  | -149.280 |     |        |      |

编号: 08-01-M26

## 一般目镜

E. F. L = 12.94    B. F. L = 10.42     $\phi_{\text{出}}/2 = 0.8$     F. A. =  $\pm 17^\circ$      $L_p = -11$



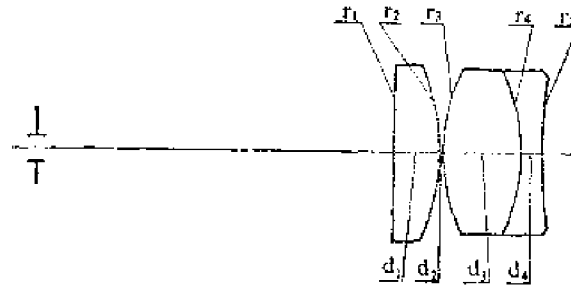
| 序号 | r        | d   | n      | v    |
|----|----------|-----|--------|------|
| 1  | $\infty$ | 2.0 | 1.5153 | 64.1 |
| 2  | -15.136  | 0.5 |        |      |
| 3  | 19.498   | 3.5 | 1.5891 | 61.2 |
| 4  | -6.918   | 1.0 | 1.6199 | 36.3 |
| 5  | -28.970  |     |        |      |



编号: 08-01-M27

## 一般目镜

E. F. L = 11.95    B. F. L = 8.07     $\phi_{\text{出}}/2 = 0.6$     F. A =  $\pm 6.5^\circ$      $L_p = -16.00$

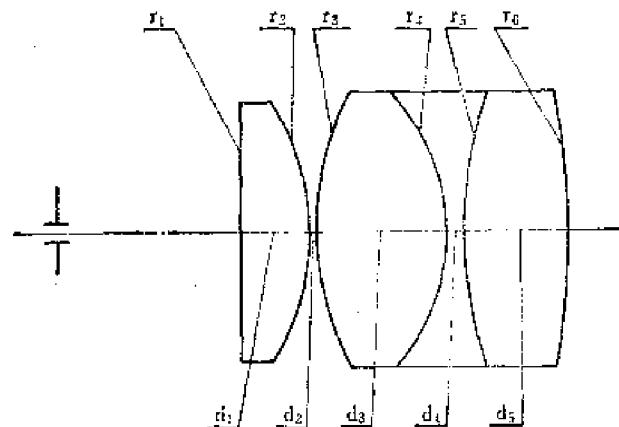


| 序号 | r        | d   | n      | v    |
|----|----------|-----|--------|------|
| 1  | $\infty$ | 2.0 | 1.5163 | 64.1 |
| 2  | -9.68    | 0.1 |        |      |
| 3  | 8.77     | 3.5 | 1.5163 | 64.1 |
| 4  | -8.77    | 1.0 | 1.6475 | 33.9 |
| 5  | 25.39    |     |        |      |

编号: 08-01-M28

## 一般目镜

E. F. L = 25.18    B. F. L = 7.42     $\phi_{\text{出}}/2 = 2$     F. A =  $\pm 30^\circ$      $L_p = -20.25$

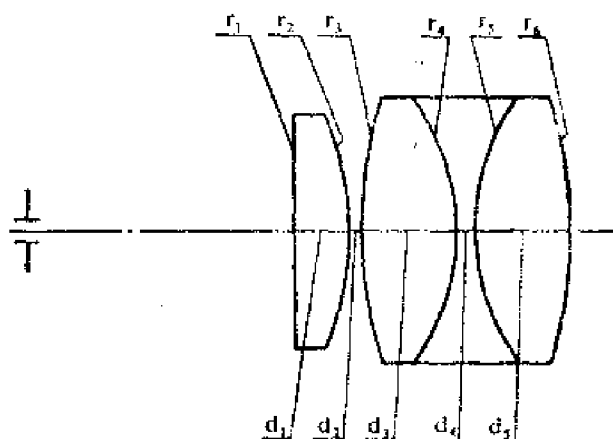


| 序号 | r        | d    | n      | v    |
|----|----------|------|--------|------|
| 1  | $\infty$ | 7.0  | 1.6920 | 54.2 |
| 2  | -26.49   | 0.2  |        |      |
| 3  | 31.99    | 14.0 | 1.5688 | 62.9 |
| 4  | -21.88   | 2.0  | 1.7280 | 28.3 |
| 5  | 48.31    | 11.0 | 1.5688 | 62.9 |
| 6  | -78.70   |      |        |      |

编号: 08-01-M29

## 一般目镜

E. F. L = 25.02    B. F. L = 15.35     $\phi_{\text{目}}/2 = 1.3$     F. A. =  $\pm 20^\circ$      $L_p = -20.00$

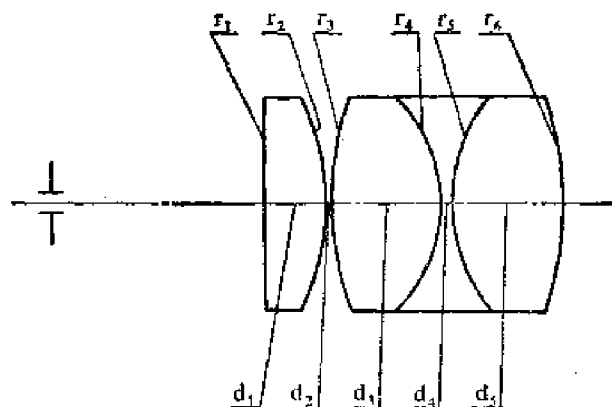


| 序 号 | r        | d   | n      | v    |
|-----|----------|-----|--------|------|
| 1   | $\infty$ | 4.0 | 1.5891 | 61.2 |
| 2   | -23.010  | 1.0 |        |      |
| 3   | 33.650   | 7.0 | 1.5163 | 64.1 |
| 4   | -16.634  | 1.5 | 1.6242 | 35.9 |
| 5   | 16.634   | 7.0 | 1.5163 | 64.1 |
| 6   | -33.650  |     |        |      |

编号: 08-01-M30

## 一般目镜

E. F. L = 19.88    B. F. L = 9.72     $\phi_{\text{目}}/2 = 1$     F. A. =  $\pm 20^\circ$      $L_p = -16.26$

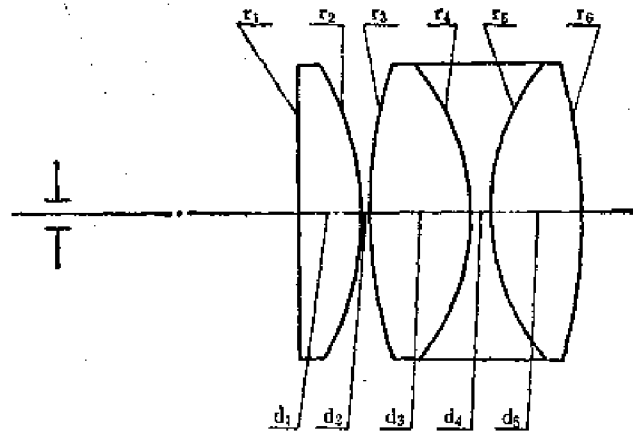


| 序 号 | r        | d   | n      | v    |
|-----|----------|-----|--------|------|
| 1   | $\infty$ | 4.6 | 1.5724 | 57.5 |
| 2   | -17.906  | 0.2 |        |      |
| 3   | 25.530   | 7.8 | 1.5147 | 60.6 |
| 4   | -12.531  | 1.0 | 1.6164 | 36.6 |
| 5   | 12.531   | 7.8 | 1.5147 | 60.6 |
| 6   | -25.530  |     |        |      |

编号: 08-01-M31

## 一般目镜

E. F. L = 19.63    B. F. L = 11.14     $\phi_{\text{目}}/2 = 2$     F. A. =  $\pm 25^\circ$      $L_p = -16.23$

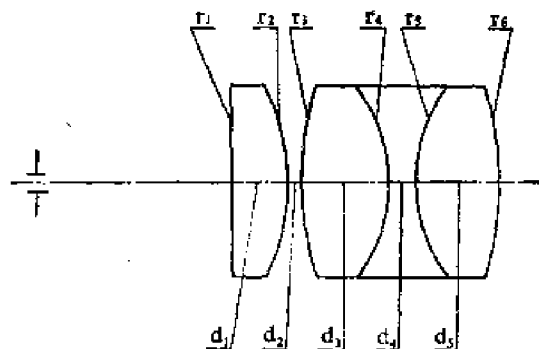


| 序 号 | r        | d    | n      | v    |
|-----|----------|------|--------|------|
| 1   | $\infty$ | 4.20 | 1.7230 | 28.3 |
| 2   | -20.180  | 0.12 |        |      |
| 3   | 31.190   | 6.80 | 1.6111 | 55.8 |
| 4   | -15.488  | 1.20 | 1.7550 | 27.5 |
| 5   | 15.488   | 6.20 | 1.6076 | 46.1 |
| 6   | -36.810  |      |        |      |

编号: 08-01-M32

## 一般目镜

E. F. L = 8.86    B. F. L = 4.42     $\phi_{\text{目}}/2 = 0.4$     F. A. =  $\pm 21.5^\circ$      $L_p = -7.10$

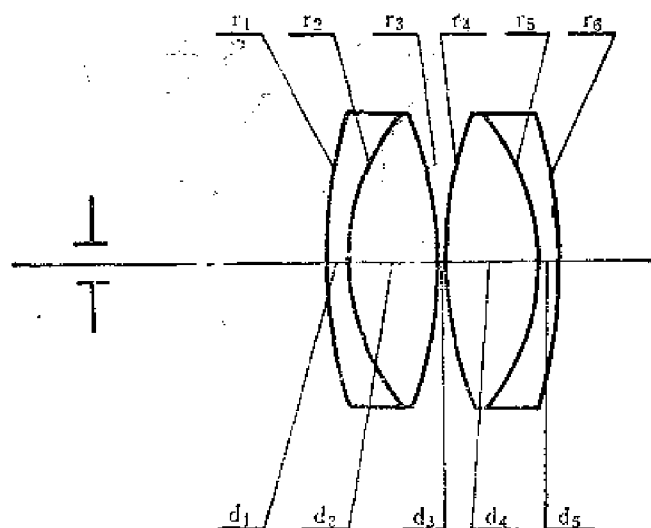


| 序 号 | r        | d   | n      | v    |
|-----|----------|-----|--------|------|
| 1   | $\infty$ | 2.0 | 1.5891 | 61.2 |
| 2   | -8.10    | 0.4 |        |      |
| 3   | 11.86    | 3.0 | 1.5163 | 64.1 |
| 4   | -5.76    | 1.0 | 1.6128 | 36.9 |
| 5   | 5.76     | 3.0 | 1.5163 | 64.1 |
| 6   | -11.86   |     |        |      |

编号: 08-01-M33

## 一般目镜

E. F. L = 50.15    B. F. L = 36.96     $\phi_{\text{目}}/2 = 3$     F. A. =  $\pm 25^\circ$      $L_p = -42.15$

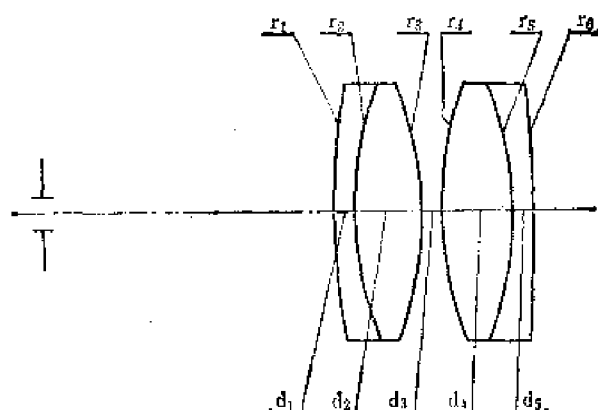


| 序 号 | r      | d    | n      | v    |
|-----|--------|------|--------|------|
| 1   | 92.26  | 3.0  | 1.6475 | 33.9 |
| 2   | 40.46  | 16.0 | 1.5163 | 64.1 |
| 3   | -72.78 | 0.1  |        |      |
| 4   | 72.78  | 16.0 | 1.5163 | 64.1 |
| 5   | -40.46 | 3.0  | 1.6475 | 33.9 |
| 6   | -92.26 |      |        |      |

编号: 08-01-M34

## 一般目镜

E. F. L = 49.87    B. F. L = 41.06     $\phi_{\text{目}}/2 = 3$     F. A. =  $\pm 20^\circ$      $L_p = -42.15$

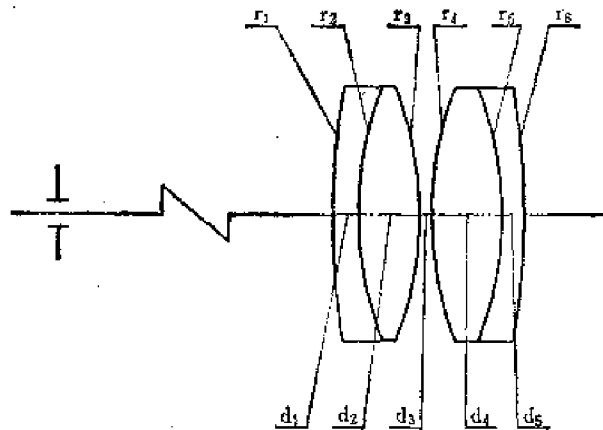


| 序 号 | r       | d    | n      | v    |
|-----|---------|------|--------|------|
| 1   | 341.83  | 3.00 | 1.6475 | 33.9 |
| 2   | 47.02   | 9.00 | 1.5163 | 64.1 |
| 3   | -47.02  | 2.06 |        |      |
| 4   | 47.02   | 9.00 | 1.5163 | 64.1 |
| 5   | -47.02  | 3.00 | 1.6475 | 33.9 |
| 6   | -341.83 |      |        |      |

编号: 08-01-M35

## 一般目镜

E. F. L = 49.88    B. F. L = 40.63     $\phi_{\text{出}}/2 = 3.4$     F. A. =  $\pm 11^\circ$      $L_p = -67.28$

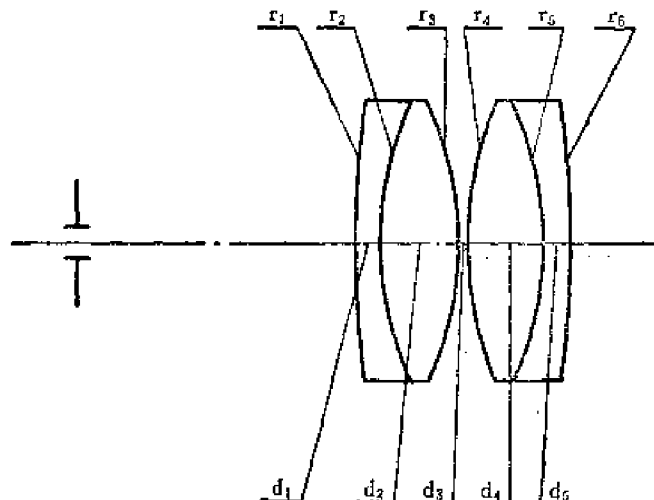


| 序 号 | r       | d    | n      | v    |
|-----|---------|------|--------|------|
| 1   | 341.83  | 3.00 | 1.6475 | 33.9 |
| 2   | 47.02   | 9.60 | 1.5163 | 64.1 |
| 3   | -47.02  | 2.06 |        |      |
| 4   | 47.02   | 9.60 | 1.5163 | 64.1 |
| 5   | -47.02  | 3.00 | 1.6475 |      |
| 6   | -341.83 |      |        | 33.9 |

编号: 08-01-M36

## 一般目镜

E. F. L = 38.06    B. F. L = 30.31     $\phi_{\text{出}}/2 = 3.5$     F. A. =  $\pm 20^\circ$      $L_p = -30$

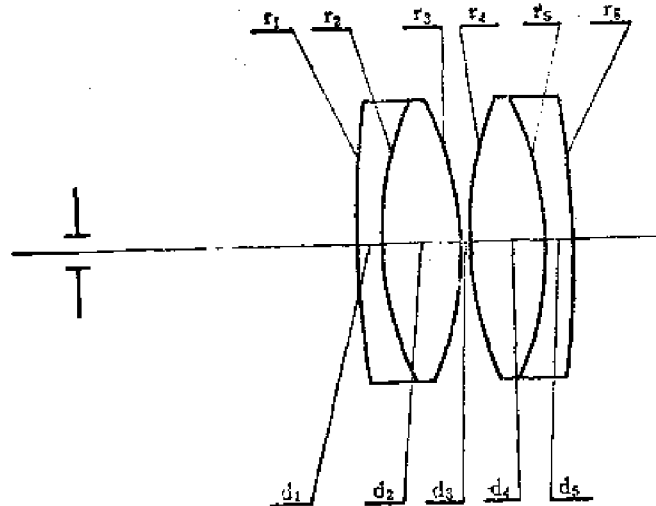


| 序 号 | r       | d   | n      | v    |
|-----|---------|-----|--------|------|
| 1   | 260.60  | 3.0 | 1.6475 | 33.9 |
| 2   | 35.89   | 7.8 | 1.5163 | 64.1 |
| 3   | -35.89  | 1.5 |        |      |
| 4   | 35.89   | 7.8 | 1.5163 | 64.1 |
| 5   | -35.89  | 3.0 | 1.6475 | 33.9 |
| 6   | -260.60 |     |        |      |

编号: 08-01-M37

## 一般目镜

E. F. L = 83.37    B. F. L = 24.46     $\phi_{th}/2 = 3.5$     F. A. =  $\pm 20^\circ$      $L_p = -30$

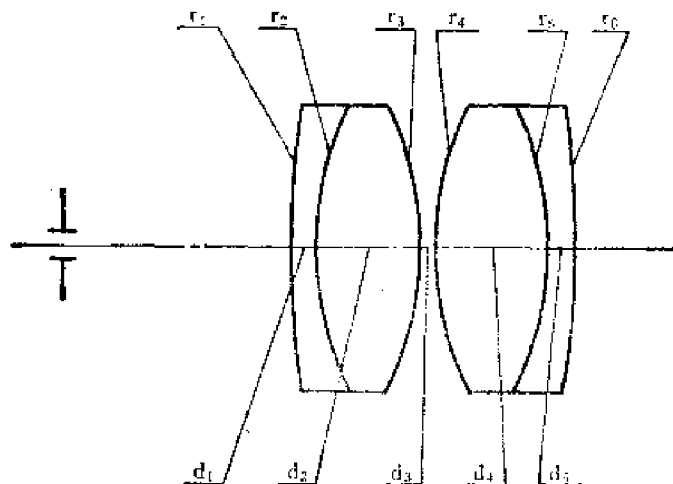


| 序 号 | r        | d    | n      | v    |
|-----|----------|------|--------|------|
| 1   | 200.000  | 2.5  | 1.6475 | 33.9 |
| 2   | 32.396   | 10.0 | 1.5163 | 64.1 |
| 3   | -32.396  | 1.5  | 1.5163 | 64.1 |
| 4   | 32.396   | 10.0 | 1.5163 | 64.1 |
| 5   | -32.396  | 2.5  | 1.6475 | 33.9 |
| 6   | -200.000 |      |        |      |

编号: 08-01-M38

## 一般目镜

E. F. L = 29.84    B. F. L = 21.82     $\phi_{th}/2 = 3$     F. A. =  $\pm 21.5^\circ$      $L_p = -20$

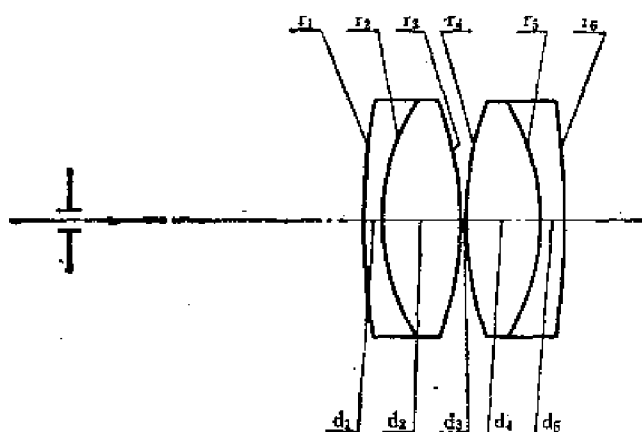


| 序 号 | r       | d    | n      | v    |
|-----|---------|------|--------|------|
| 1   | 179.89  | 2.25 | 1.6475 | 33.9 |
| 2   | 28.93   | 9.00 | 1.5163 | 64.1 |
| 3   | -28.93  | 1.35 | 1.5163 | 64.1 |
| 4   | 28.93   | 9.00 | 1.5163 | 64.1 |
| 5   | -28.93  | 2.25 | 1.6475 | 33.9 |
| 6   | -179.89 |      |        |      |

编号: 08-01-M39

## 一般目镜

E. F. L = 27.61    B. F. L = 21.13     $\phi_{II}/2 = 2$     F. A. =  $\pm 18'$      $L_p = -27.5$

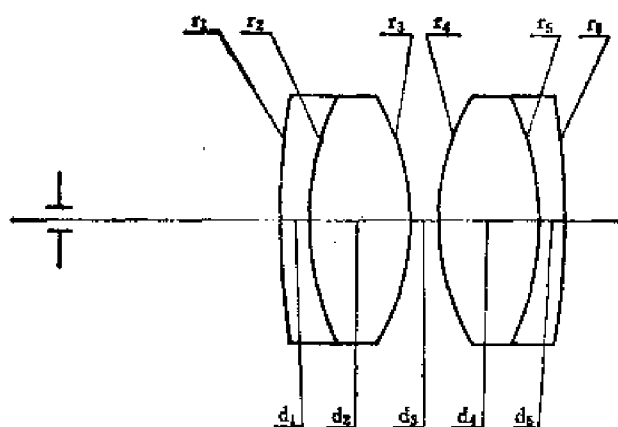


| 序号 | r      | d   | n      | v    |
|----|--------|-----|--------|------|
| 1  | 83.45  | 2.0 | 1.6164 | 36.6 |
| 2  | 20.39  | 7.3 | 1.5163 | 64.1 |
| 3  | -31.44 | 0.5 |        |      |
| 4  | 31.44  | 7.3 | 1.5163 | 64.1 |
| 5  | -20.39 | 2.0 | 1.6164 | 36.6 |
| 6  | -83.45 |     |        |      |

编号: 08-01-M40

## 一般目镜

E. F. L = 25.90    B. F. L = 18.26     $\phi_{III}/2 = 3$     F. A. =  $\pm 19'$      $L_p = -21.27$

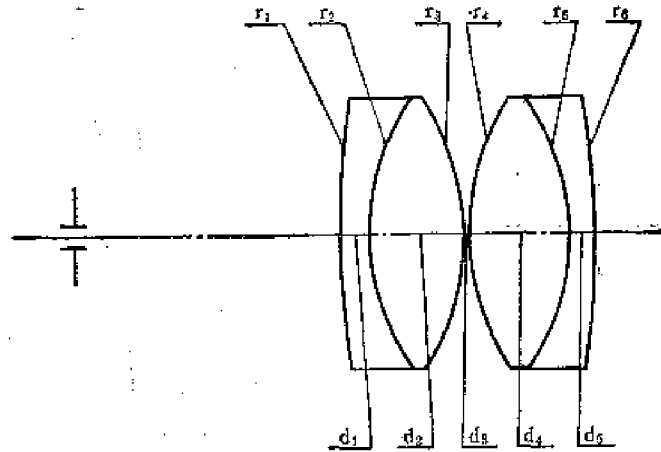


| 序号 | r       | d   | n      | v    |
|----|---------|-----|--------|------|
| 1  | 331.90  | 2.5 | 1.6475 | 33.9 |
| 2  | 28.05   | 9.0 | 1.5163 | 64.1 |
| 3  | -23.93  | 2.5 |        |      |
| 4  | 23.93   | 9.0 | 1.5163 | 64.1 |
| 5  | -28.05  | 2.5 | 1.6475 | 33.9 |
| 6  | -331.90 |     |        |      |

编号: 08-01-M41

## 一般目镜

E. F. L = 25.66    B. F. L = 19.16     $\phi_{出}/2 = 3$     F. A. =  $\pm 20^\circ$      $L_p = -21.27$

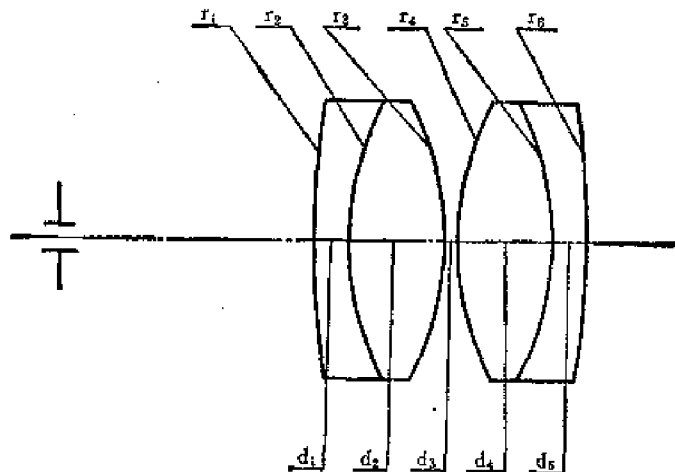


| 序 号 | r       | d   | n      | v    |
|-----|---------|-----|--------|------|
| 1   | 71.710  | 2.0 | 1.6164 | 36.6 |
| 2   | 19.305  | 7.5 | 1.5163 | 64.1 |
| 3   | -30.210 | 0.2 |        |      |
| 4   | 30.210  | 7.5 | 1.5163 | 64.1 |
| 5   | -19.305 | 2.0 | 1.6164 | 36.6 |
| 6   | -71.710 |     |        |      |

编号: 08-01-M42

## 一般目镜

E. F. L = 24.50    B. F. L = 18.23     $\phi_{出}/2 = 2.5$     F. A. =  $\pm 20^\circ$      $L_p = -19$



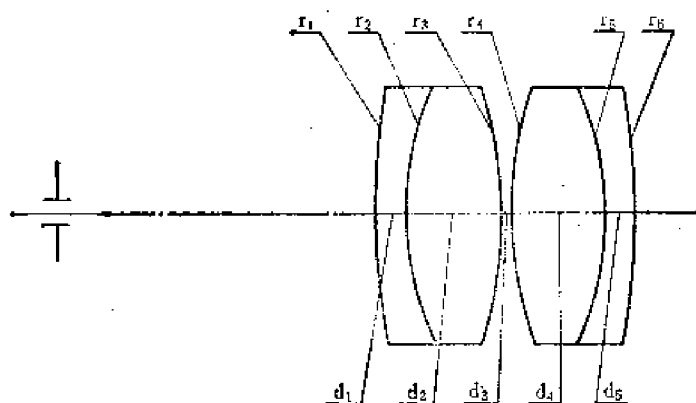
| 序 号 | r       | d   | n      | v    |
|-----|---------|-----|--------|------|
| 1   | 154.53  | 2.5 | 1.6475 | 33.9 |
| 2   | 24.21   | 7.5 | 1.5163 | 64.1 |
| 3   | -24.21  | 0.5 |        |      |
| 4   | 24.21   | 7.5 | 1.5163 | 64.1 |
| 5   | -24.21  | 2.5 | 1.6475 | 33.9 |
| 6   | -154.53 |     |        |      |



编号: 08-01-M43

## 一般目镜

E. F. L = 22.27    B. F. L = 18.54     $\phi_{\text{出}}/2 = 1.8$     F. A. =  $\pm 12.5^\circ$      $L_p = -23.18$

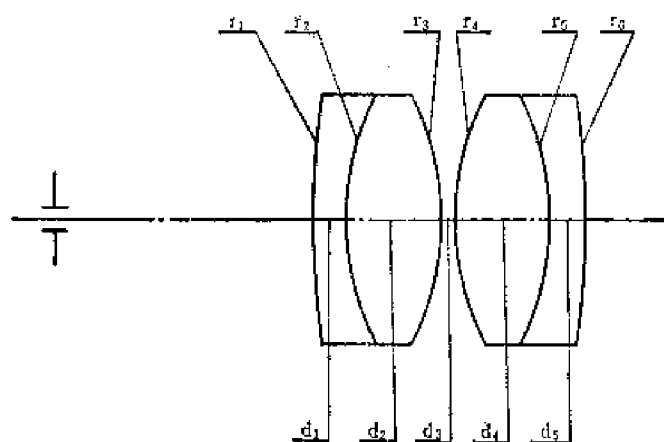


| 序 号 | r        | d   | n      | v    |
|-----|----------|-----|--------|------|
| 1   | 498.900  | 1.4 | 1.6164 | 33.6 |
| 2   | 19.907   | 4.0 | 1.5163 | 64.1 |
| 3   | -19.907  | 0.5 |        |      |
| 4   | 19.907   | 4.0 | 1.5163 | 64.1 |
| 5   | -19.907  | 1.4 | 1.6164 | 33.6 |
| 6   | -498.900 |     |        |      |

编号: 08-01-M44

## 一般目镜

E. F. L = 22.24    B. F. L = 15.83     $\phi_{\text{出}}/2 = 2.2$     F. A. =  $\pm 20^\circ$      $L_p = -21.39$

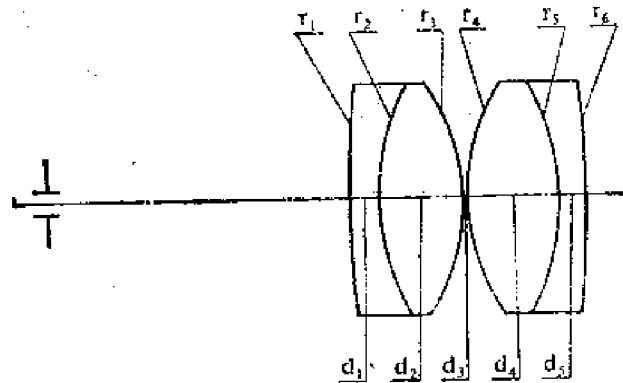


| 序 号 | r       | d    | n      | v    |
|-----|---------|------|--------|------|
| 1   | 137.72  | 2.20 | 1.6475 | 33.9 |
| 2   | 21.58   | 7.30 | 1.5163 | 64.1 |
| 3   | -21.58  | 0.45 |        |      |
| 4   | 21.58   | 7.30 | 1.5163 | 64.1 |
| 5   | -21.58  | 2.20 | 1.6475 | 33.9 |
| 6   | -137.72 |      |        |      |

编号: 08-01-M45

## 一般目镜

E. F. L = 22.16    B. F. L = 14.86     $\phi_m/2 = 2.5$     F. A. =  $\pm 17^\circ$      $L_p = -29.51$

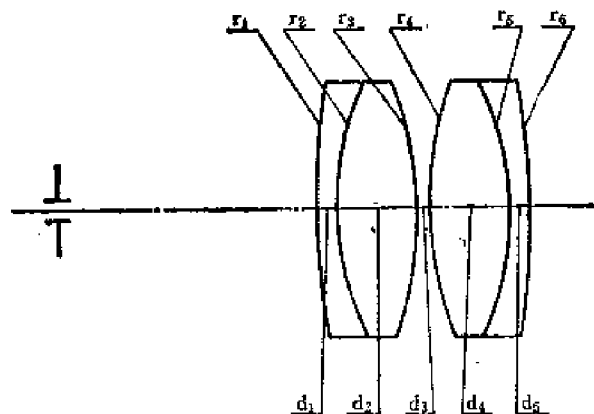


| 序 号 | r       | d   | n      | v    |
|-----|---------|-----|--------|------|
| 1   | 303.40  | 2.5 | 1.6475 | 33.9 |
| 2   | 24.21   | 8.5 | 1.5163 | 64.1 |
| 3   | -20.46  | 0.5 |        |      |
| 4   | 20.46   | 8.5 | 1.5163 | 64.1 |
| 5   | -24.21  | 2.5 | 1.6475 | 33.9 |
| 6   | -303.40 |     |        |      |

编号: 08-01-M46

## 一般目镜

E. F. L = 21.51    B. F. L = 16.63     $\phi_m/2 = 2$     F. A. =  $\pm 20^\circ$      $L_p = -16.72$

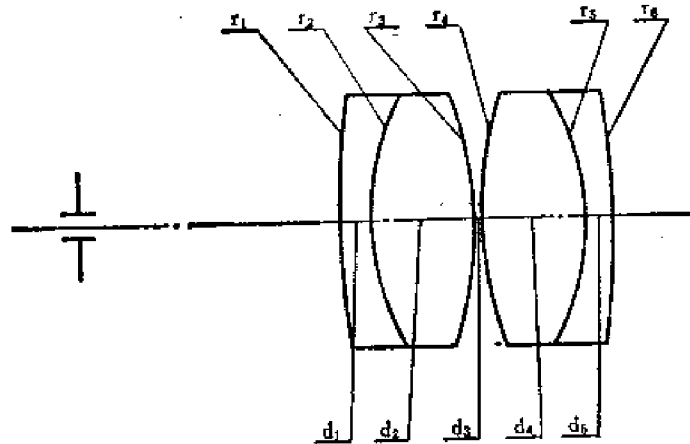


| 序 号 | r      | d   | n      | v    |
|-----|--------|-----|--------|------|
| 1   | 67.45  | 1.3 | 1.6164 | 36.6 |
| 2   | 20.51  | 5.2 | 1.5163 | 64.1 |
| 3   | -25.53 | 1.0 |        |      |
| 4   | 25.53  | 5.2 | 1.5163 | 64.1 |
| 5   | -20.51 | 1.3 | 1.6164 | 36.6 |
| 6   | -67.45 |     |        |      |

编号: 08-01-M47

## 一般目镜

E. F. L = 21.27    B. F. L = 15.87     $\phi_m/2 = 2.5$     F. A. =  $\pm 19'$      $L_p = -14.98$

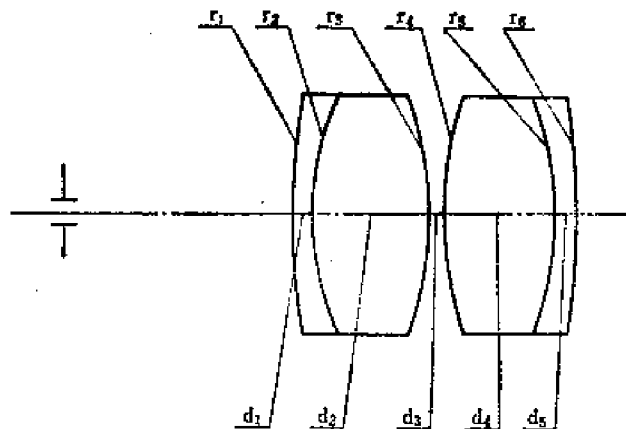


| 序 号 | r      | d    | n      | v    |
|-----|--------|------|--------|------|
| 1   | 59.40  | 1.70 | 1.6164 | 36.6 |
| 2   | 15.99  | 6.20 | 1.5163 | 64.1 |
| 3   | -25.03 | 0.17 |        |      |
| 4   | 25.03  | 6.20 | 1.5163 | 64.1 |
| 5   | -15.99 | 1.70 | 1.6164 | 36.6 |
| 6   | -59.40 |      |        |      |

编号: 08-01-M48

## 一般目镜

E. F. L = 20.10    B. F. L = 14.72     $\phi_m/2 = 2$     F. A. =  $\pm 19'$      $L_p = -14.6$

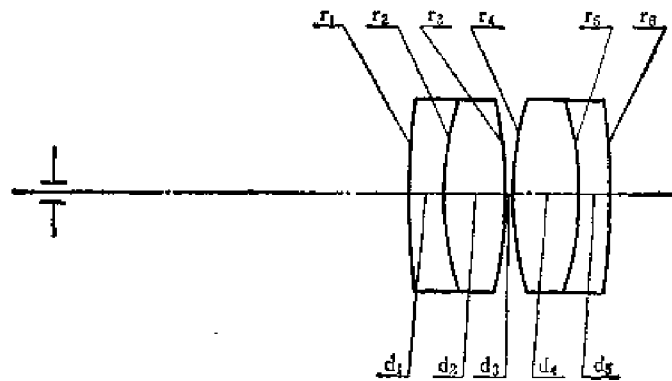


| 序 号 | r      | d   | n      | v    |
|-----|--------|-----|--------|------|
| 1   | 56.62  | 1.0 | 1.6164 | 36.6 |
| 2   | 15.96  | 6.2 | 1.5163 | 64.1 |
| 3   | -23.71 | 1.0 |        |      |
| 4   | 23.71  | 6.2 | 1.5163 | 64.1 |
| 5   | -15.96 | 1.0 | 1.6164 | 36.6 |
| 6   | -56.62 |     |        |      |

编号: 08-01-M49

## 一般目镜

E. F. L = 18.24    B. F. L = 15.34     $\phi_{出}/2 = 2$     F. A. =  $\pm 11.5^\circ$      $L_p = -15.19$

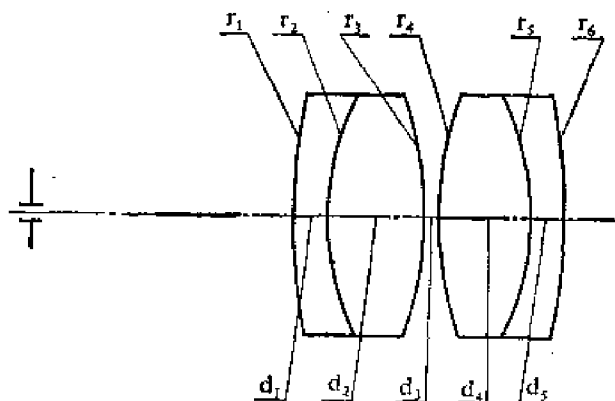


| 序 号 | r       | d   | n      | v    |
|-----|---------|-----|--------|------|
| 1   | 44.980  | 1.5 | 1.6475 | 33.9 |
| 2   | 14.256  | 2.5 | 1.5163 | 64.1 |
| 3   | -22.030 | 0.5 |        |      |
| 4   | 22.030  | 2.5 | 1.5163 | 64.1 |
| 5   | -14.256 | 1.5 | 1.6475 | 33.9 |
| 6   | -44.980 |     |        |      |

编号: 08-01-M50

## 一般目镜

E. F. L = 16.99    B. F. L = 12.48     $\phi_{出}/2 = 2$     F. A. =  $\pm 18^\circ$      $L_p = -14.26$

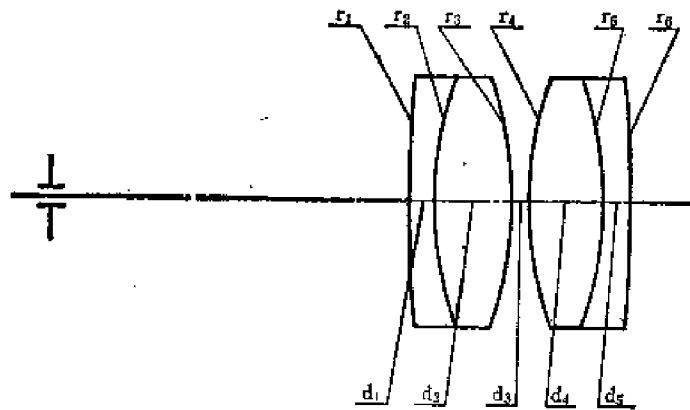


| 序 号 | r       | d   | n      | v    |
|-----|---------|-----|--------|------|
| 1   | 50.350  | 1.5 | 1.6164 | 36.6 |
| 2   | 16.596  | 5.1 | 1.5163 | 64.1 |
| 3   | -20.650 | 0.1 |        |      |
| 4   | 20.650  | 5.1 | 1.5163 | 64.1 |
| 5   | -16.596 | 1.5 | 1.6164 | 36.6 |
| 6   | -50.350 |     |        |      |

编号: 08-01-M51

## 一般目镜

E. F. L = 15.29    B. F. L = 10.96     $\phi_{\text{出}}/2 = 1.4$     F. A. =  $\pm 19^\circ$      $L_p = -13$

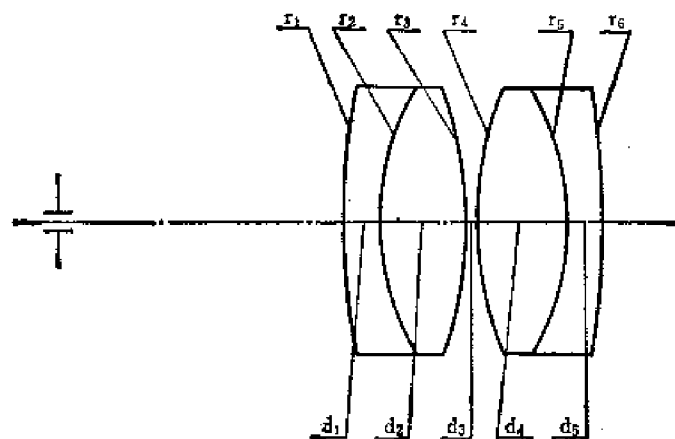


| 序 号 | r      | d   | n      | v    |
|-----|--------|-----|--------|------|
| 1   | 42.70  | 1.5 | 1.6164 | 36.6 |
| 2   | 13.50  | 4.5 | 1.5163 | 64.1 |
| 3   | -18.42 | 0.5 |        |      |
| 4   | 18.42  | 4.5 | 1.5163 | 64.1 |
| 5   | -13.50 | 1.5 | 1.6164 | 36.6 |
| 6   | -42.70 |     |        |      |

编号: 08-01-M52

## 一般目镜

E. F. L = 15.21    B. F. L = 11.27     $\phi_{\text{出}}/2 = 1.4$     F. A. =  $\pm 19^\circ$      $L_p = -13$

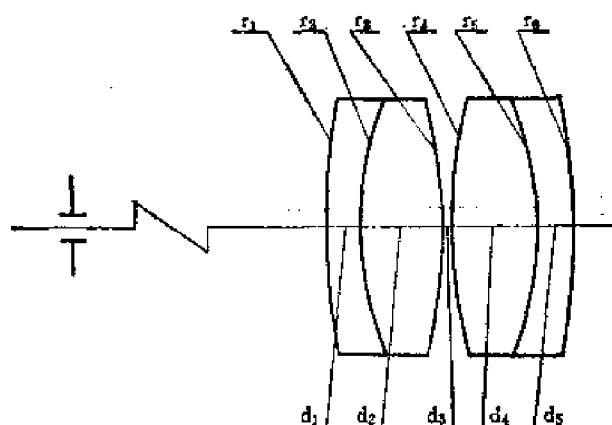


| 序 号 | r      | d    | n      | v    |
|-----|--------|------|--------|------|
| 1   | 36.75  | 1.50 | 1.6475 | 33.9 |
| 2   | 11.65  | 4.00 | 1.5163 | 64.1 |
| 3   | -17.99 | 0.45 |        |      |
| 4   | 17.99  | 4.00 | 1.5163 | 64.1 |
| 5   | -11.65 | 1.50 | 1.6475 | 33.9 |
| 6   | -36.75 |      |        |      |

编号: 08-01-M53

## 一般目镜

E. F. L = 12.07    B. F. L = 9.77     $\phi_{\text{出}}/2 = 0.8$     F. A. =  $\pm 13.5^\circ$      $L_p = -11.3$

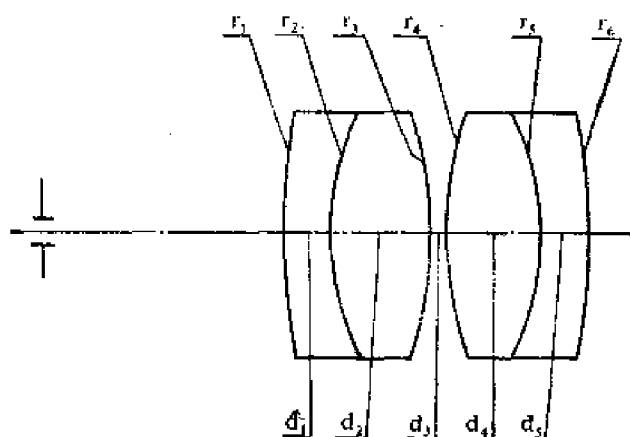


| 序 号 | r      | d    | n      | v    |
|-----|--------|------|--------|------|
| 1   | 29.58  | 1.00 | 1.6475 | 33.9 |
| 2   | 9.37   | 2.20 | 1.5163 | 64.1 |
| 3   | -14.49 | 0.38 |        |      |
| 4   | 14.49  | 2.20 | 1.5163 | 64.1 |
| 5   | -9.37  | 1.00 | 1.6475 | 33.9 |
| 6   | -29.58 |      |        |      |

编号: 08-01-M54

## 一般目镜

E. F. L = 10.15    B. F. L = 6.96     $\phi_{\text{出}}/2 = 1$     F. A. =  $\pm 20^\circ$      $L_p = -7.5$

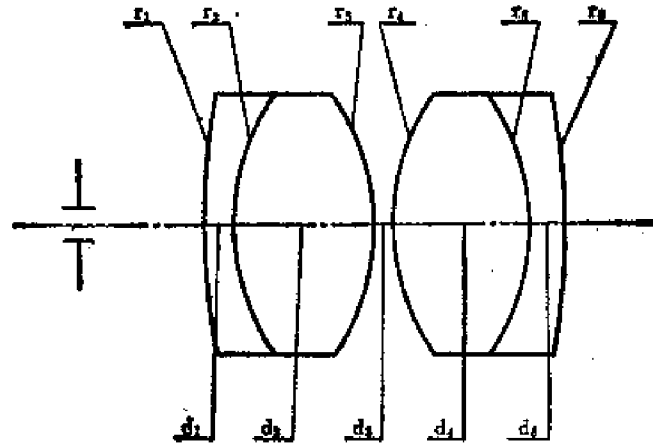


| 序 号 | r       | d   | n      | v    |
|-----|---------|-----|--------|------|
| 1   | 27.670  | 1.4 | 1.6164 | 36.6 |
| 2   | 8.356   | 2.9 | 1.5163 | 64.1 |
| 3   | -11.960 | 0.5 |        |      |
| 4   | 11.960  | 2.9 | 1.5163 | 64.1 |
| 5   | -8.356  | 1.4 | 1.6164 | 36.6 |
| 6   | -27.670 |     |        |      |

编号: 08-01-M55

## 一般目镜

E. F. L = 8.27    B. F. L = 4.24     $\phi_m/2 = 0.2$     F. A. =  $\pm 25^\circ$      $L_p = -4$

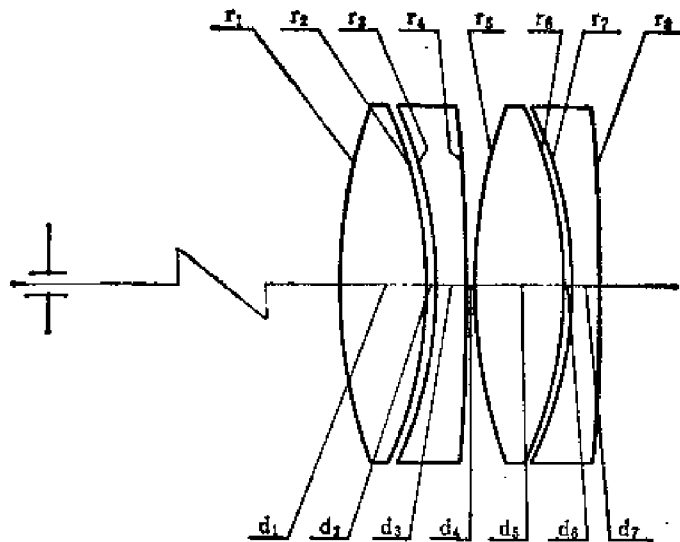


| 序号 | r       | d   | n      | v    |
|----|---------|-----|--------|------|
| 1  | 55.980  | 1.2 | 1.6475 | 33.9 |
| 2  | 7.878   | 4.6 | 1.5163 | 64.1 |
| 3  | -7.878  | 0.5 |        |      |
| 4  | 7.878   | 4.6 | 1.5163 | 64.1 |
| 5  | -7.878  | 1.2 | 1.6475 | 33.9 |
| 6  | -55.980 |     |        |      |

编号: 08-01-M56

## 一般目镜

E. F. L = 102.88    B. F. L = 81.11     $\phi_m/2 = 3$     F. A. =  $\pm 15^\circ$      $L_p = -115$

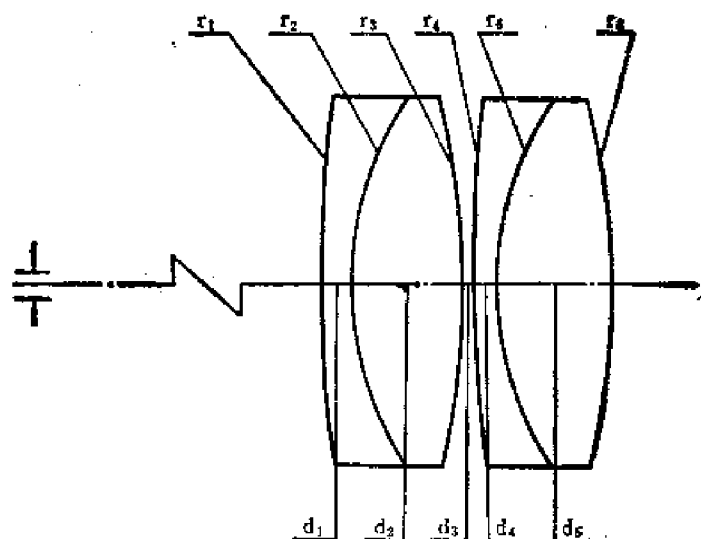


| 序号 | r       | d     | n      | v    | 序号 | r       | d     | n      | v    |
|----|---------|-------|--------|------|----|---------|-------|--------|------|
| 1  | 115.78  | 18.60 | 1.5163 | 64.1 | 5  | 115.78  | 18.60 | 1.5163 | 64.1 |
| 2  | -94.19  | 0.03  |        |      | 6  | -94.19  | 0.03  |        |      |
| 3  | -94.19  | 6.00  | 1.6475 | 33.9 | 7  | -94.19  | 6.00  | 1.6475 | 33.9 |
| 4  | -313.30 | 0.40  |        |      | 8  | -313.30 |       |        |      |

编号: 08-01-M57

## 一般目镜

E. F. L = 52.68    B. F. L = 43.66     $\phi_{\text{出}}/2 = 3.5$     F. A. =  $\pm 15^\circ$      $L_p = -50$

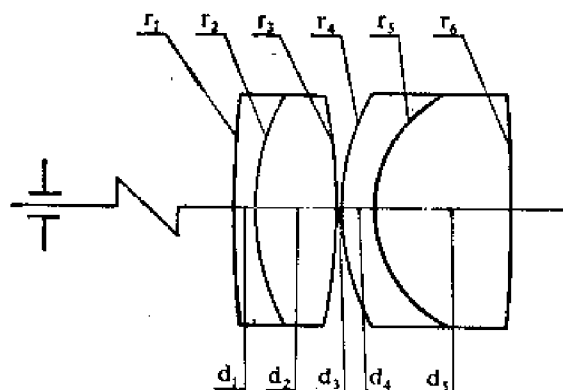


| 序 号 | r      | d    | n      | v    |
|-----|--------|------|--------|------|
| 1   | 109.71 | 3.0  | 1.6475 | 33.9 |
| 2   | 35.95  | 11.5 | 1.5688 | 56.0 |
| 3   | -87.57 | 0.5  |        |      |
| 4   | 109.71 | 3.0  | 1.6475 | 33.9 |
| 5   | 35.95  | 11.5 | 1.5688 | 56.0 |
| 6   | -87.57 |      |        |      |

编号: 08-01-M58

## 一般目镜

E. F. L = 30.58    B. F. L = 17.78     $\phi_{\text{出}}/2 = 4.5$     F. A. =  $\pm 15.5^\circ$      $L_p = -32$



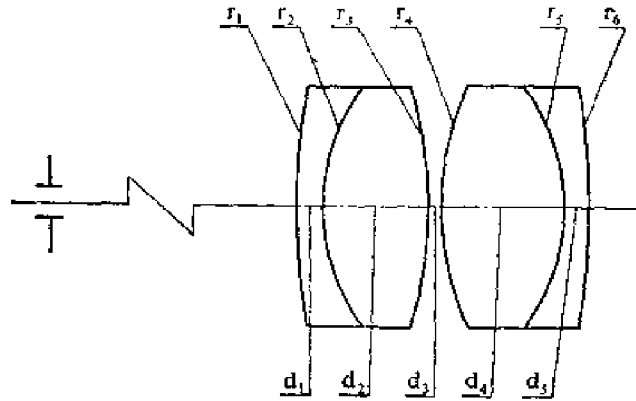
| 序 号 | r        | d     | n      | v    |
|-----|----------|-------|--------|------|
| 1   | 100.004  | 3.00  | 1.6128 | 36.9 |
| 2   | 30.111   | 9.00  | 1.6088 | 58.9 |
| 3   | -79.890  | 0.25  |        |      |
| 4   | 35.122   | 4.00  | 1.6259 | 39.1 |
| 5   | 15.070   | 16.00 | 1.6220 | 56.7 |
| 6   | -134.370 |       |        |      |



编号: 08-01-M59

## 一般目镜

E. F. L = 20.26    B. F. L = 12.92     $\phi_{出}/2 = 1.5$     F. A. =  $\pm 19.5^\circ$      $L_p = -11$

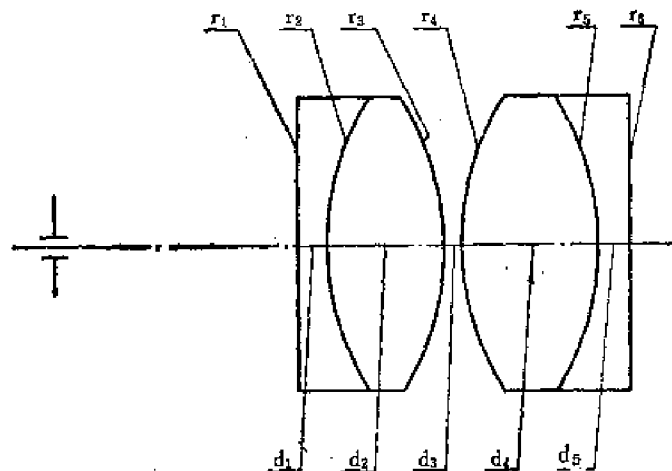


| 序号 | r        | d | n      | v    |
|----|----------|---|--------|------|
| 1  | 205.600  | 2 | 1.6164 | 36.6 |
| 2  | 15.488   | 8 | 1.6130 | 60.6 |
| 3  | -33.270  | 1 |        |      |
| 4  | 22.070   | 9 | 1.6130 | 60.6 |
| 5  | -15.488  | 2 | 1.6164 | 36.6 |
| 6  | -205.600 |   |        |      |

编号: 08-01-M60

## 一般目镜

E. F. L = 19.83    B. F. L = 12.09     $\phi_{出}/2 = 2$     F. A. =  $\pm 25^\circ$      $L_p = -16$

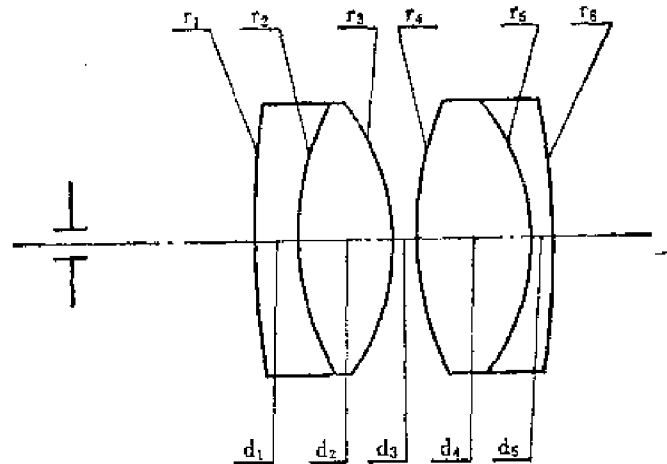


| 序号 | r        | d | n      | v    |
|----|----------|---|--------|------|
| 1  | $\infty$ | 2 | 1.6475 | 33.9 |
| 2  | 18.88    | 8 | 1.5724 | 57.5 |
| 3  | -18.88   | 1 |        |      |
| 4  | 18.88    | 9 | 1.5153 | 64.1 |
| 5  | -18.88   | 2 | 1.6199 | 36.3 |
| 6  | $\infty$ |   |        |      |

编号: 08-01-M61

## 一般目镜

E. F. L = 19.78    B. F. L = 10.88     $\phi_{\text{出}}/2 = 2$     F. A. =  $\pm 26^\circ$      $L_p = -16$

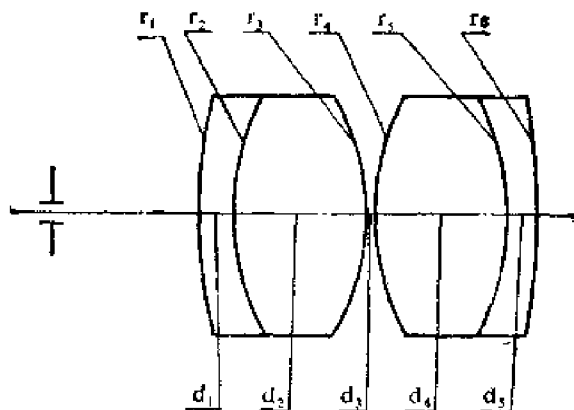


| 序 号 | r      | d     | n      | v    |
|-----|--------|-------|--------|------|
| 1   | 148.59 | 3.40  | 1.6475 | 33.9 |
| 2   | 25.59  | 8.06  | 1.6111 | 55.8 |
| 3   | -20.00 | 1.54  |        |      |
| 4   | 28.99  | 10.20 | 1.5524 | 63.3 |
| 5   | -19.34 | 1.70  | 1.7280 | 28.3 |
| 6   | -72.44 |       |        |      |

编号: 08-01-M62

## 一般目镜

E. F. L = 9.51    B. F. L = 5.43     $\phi_{\text{出}}/2 = 0.8$     F. A. =  $\pm 20.5^\circ$      $L_p = -5.60$

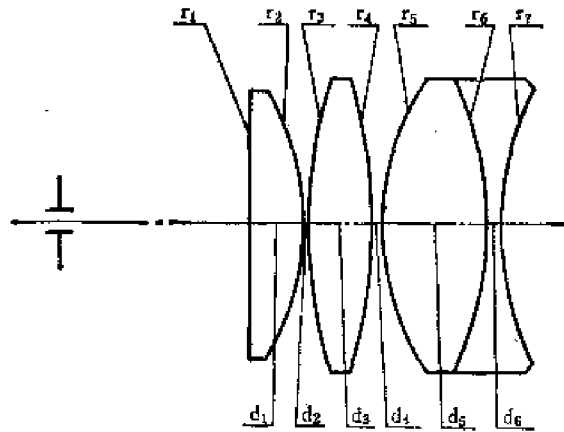


| 序 号 | r      | d    | n      | v    |
|-----|--------|------|--------|------|
| 1   | 56.75  | 1.30 | 1.6475 | 33.9 |
| 2   | 7.96   | 4.70 | 1.5163 | 64.1 |
| 3   | -8.65  | 0.44 |        |      |
| 4   | 9.70   | 4.70 | 1.5163 | 64.1 |
| 5   | -9.70  | 1.30 | 1.6475 | 33.9 |
| 6   | -56.75 |      |        |      |

编号: 08-01-M63

## 中等视场目镜

E. F. L = 30.63 B. F. L = 13.71  $\phi_{\text{出}}/2 = 2.5$  F. A. =  $\pm 30^\circ$   $L_p = -25.42$

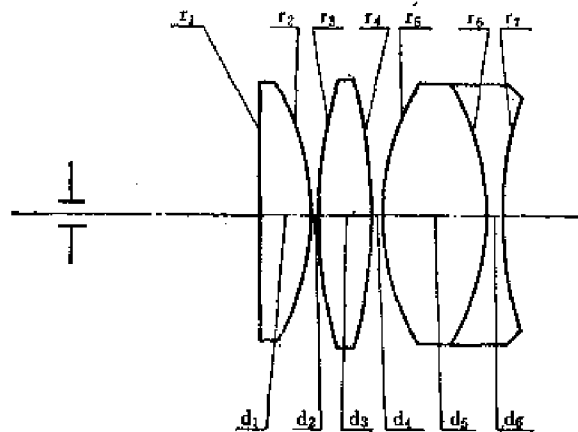


| 序 号 | r        | d    | n      | v    |
|-----|----------|------|--------|------|
| 1   | $\infty$ | 7.2  | 1.5163 | 64.1 |
| 2   | -36.14   | 0.7  |        |      |
| 3   | 68.55    | 8.0  | 1.5163 | 64.1 |
| 4   | -68.55   | 0.1  |        |      |
| 5   | 36.14    | 14.0 | 1.5294 | 51.8 |
| 6   | -52.00   | 2.0  | 1.6475 | 33.9 |
| 7   | 39.45    |      |        |      |

编号: 08-01-M64

## 中等视场目镜

E. F. L = 22.02 B. F. L = 9.15  $\phi_{\text{出}}/2 = 1.25$  F. A. =  $\pm 30^\circ$   $L_p = -19.77$

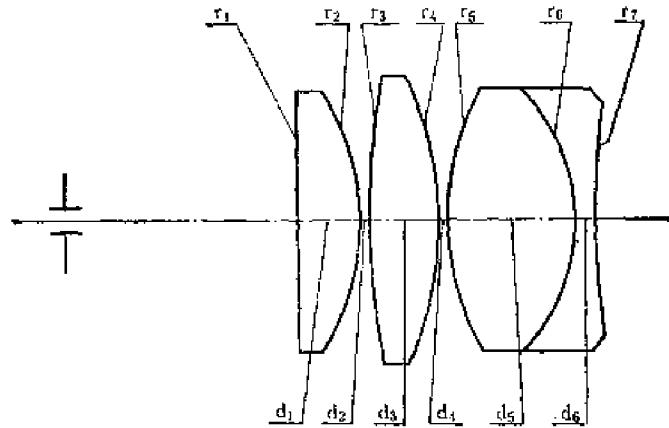


| 序 号 | r        | d    | n      | v    |
|-----|----------|------|--------|------|
| 1   | $\infty$ | 5.5  | 1.5467 | 62.8 |
| 2   | -27.54   | 0.2  |        |      |
| 3   | 64.95    | 6.0  | 1.5467 | 62.8 |
| 4   | -64.95   | 0.2  |        |      |
| 5   | 27.54    | 11.0 | 1.5467 | 62.8 |
| 6   | -27.54   | 2.0  | 1.7398 | 28.2 |
| 7   | 43.25    |      |        |      |

编号: 08-01-M65

## 中等视场目镜

E. F. L = 20.00 B. F. L = 7.11  $\phi_{\text{目}}/2 = 1.25$  F. A. =  $\pm 28.5^\circ$   $L_p = -19.27$

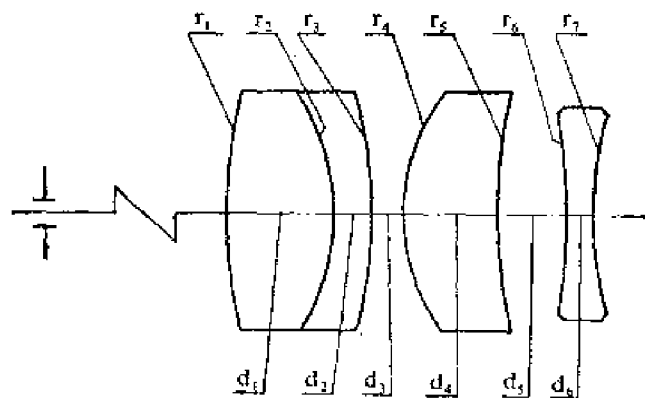


| 序 号 | r        | d     | n      | v    |
|-----|----------|-------|--------|------|
| 1   | $\infty$ | 5.20  | 1.4874 | 70.0 |
| 2   | -22.34   | 0.18  |        |      |
| 3   | 73.45    | 6.00  | 1.4874 | 70.0 |
| 4   | -31.19   | 0.18  |        |      |
| 5   | 25.06    | 11.50 | 1.4874 | 70.0 |
| 6   | -18.92   | 2.00  | 1.7550 | 27.5 |
| 7   | 81.10    |       |        |      |

编号: 08-01-M66

## 中等视场目镜

E. F. L = 17.74 B. F. L = 4.64  $\phi_{\text{目}}/2 = 0.8$  F. A. =  $\pm 12^\circ$   $L_p = -26.73$

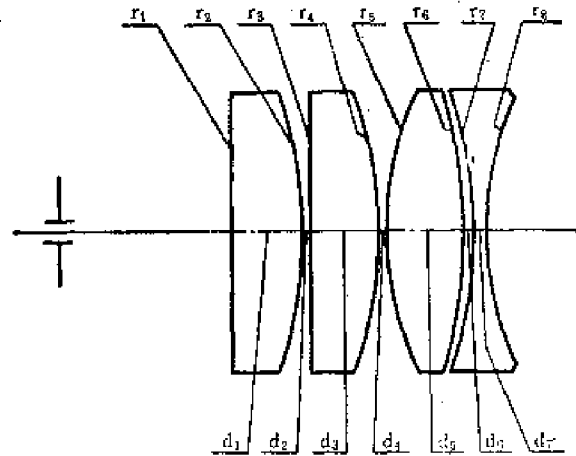


| 序 号 | r       | d   | n      | v    |
|-----|---------|-----|--------|------|
| 1   | 26.300  | 5.0 | 1.6130 | 60.6 |
| 2   | -11.614 | 2.0 | 1.7280 | 28.3 |
| 3   | -22.340 | 1.6 |        |      |
| 4   | 10.328  | 4.6 | 1.5163 | 64.1 |
| 5   | 34.040  | 3.4 |        |      |
| 6   | -20.420 | 1.5 | 1.7280 | 28.3 |
| 7   | 20.420  |     |        |      |

编号: 08-01-M67

## 中等视场目镜

E. F. L = 16.55 B. F. L = 10.25  $\phi_{出}/2 = 1$  F. A. =  $\pm 30^\circ$   $L_p = -9.96$

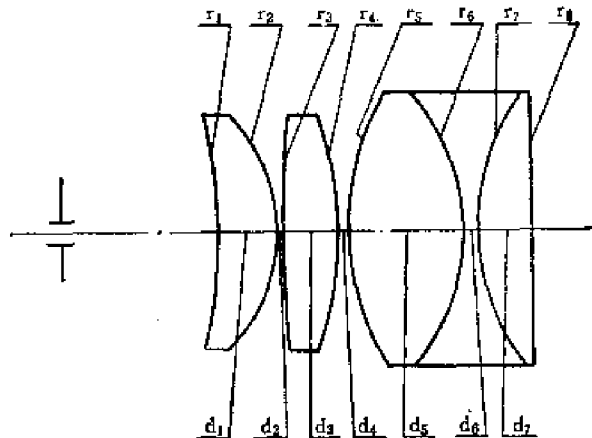


| 序 号 | r        | d   | n       | v    |
|-----|----------|-----|---------|------|
| 1   | $\infty$ | 3.8 | 1.62040 | 60.3 |
| 2   | -25.29   | 0.2 |         |      |
| 3   | $\infty$ | 3.8 | 1.62040 | 60.3 |
| 4   | -23.71   | 0.2 |         |      |
| 5   | 19.10    | 6.0 | 1.75496 | 53.0 |
| 6   | -51.88   | 0.2 |         |      |
| 7   | -37.33   | 1.0 | 1.80600 | 25.4 |
| 8   | 23.88    |     |         |      |

编号: 08-01-M68

## 中等视场目镜

E. F. L = 24.98 B. F. L = 5.83  $\phi_{出}/2 = 1.5$  F. A. =  $\pm 40^\circ$   $L_p = -19$

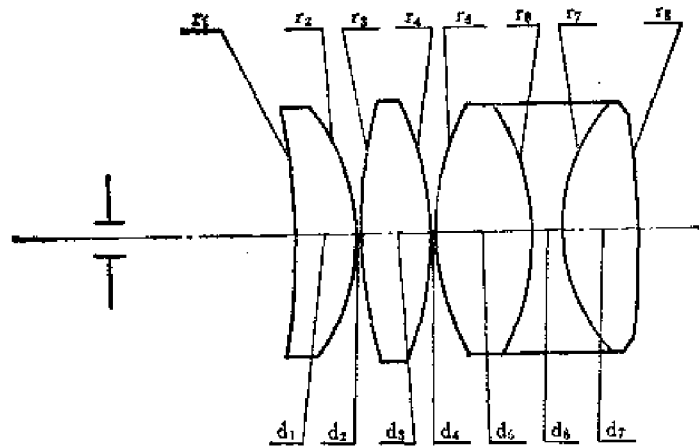


| 序 号 | r        | d     | n      | v    |
|-----|----------|-------|--------|------|
| 1   | -72.11   | 7.60  | 1.5688 | 62.9 |
| 2   | -22.40   | 0.23  |        |      |
| 3   | 146.56   | 7.13  | 1.5688 | 62.9 |
| 4   | -47.21   | 0.23  |        |      |
| 5   | 37.07    | 14.94 | 1.5688 | 62.9 |
| 6   | -28.56   | 1.60  | 1.8052 | 25.5 |
| 7   | 31.12    | 7.41  | 1.5163 | 64.1 |
| 8   | $\infty$ |       |        |      |

编号: 08-01-M69

## 中等视场目镜

E. F. L = 23.92    B. F. L = 4.65     $\phi_{\text{出}}/2 = 1.25$     F. A. =  $\pm 30^\circ$      $L_p = -21.28$

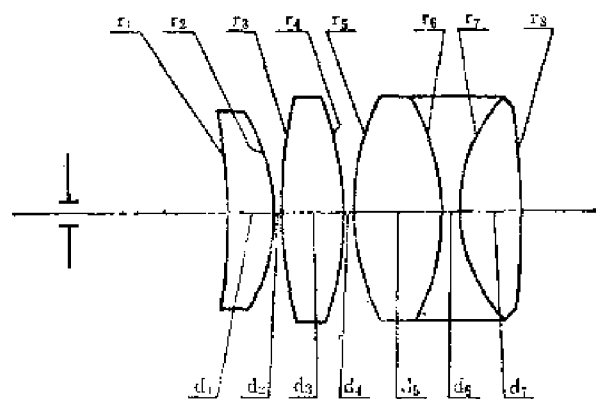


| 序 号 | r       | d    | n      | v    |
|-----|---------|------|--------|------|
| 1   | -138.68 | 6.5  | 1.5467 | 62.8 |
| 2   | -25.00  | 0.4  |        |      |
| 3   | 68.87   | 7.5  | 1.5467 | 62.8 |
| 4   | -44.26  | 0.4  |        |      |
| 5   | 35.48   | 11.0 | 1.5163 | 64.1 |
| 6   | -27.93  | 3.5  | 1.7398 | 28.2 |
| 7   | 21.68   | 8.0  | 1.5163 | 64.1 |
| 8   | -326.60 |      |        |      |

编号: 08-01-M70

## 中等视场目镜

E. F. L = 23.88    B. F. L = 4.85     $\phi_{\text{出}}/2 = 2$     F. A. =  $\pm 35^\circ$      $L_p = -20$

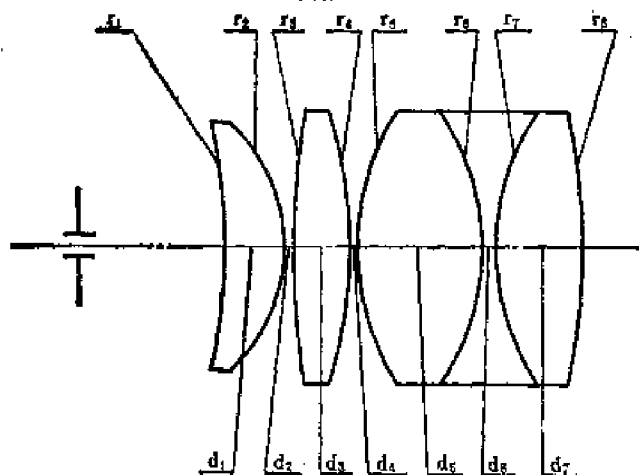


| 序 号 | r       | d    | n      | v    |
|-----|---------|------|--------|------|
| 1   | -138.68 | 6.5  | 1.5467 | 62.8 |
| 2   | -25.00  | 0.2  |        |      |
| 3   | 68.87   | 7.5  | 1.5467 | 62.8 |
| 4   | -44.26  | 0.2  |        |      |
| 5   | 35.48   | 11.0 | 1.5163 | 64.1 |
| 6   | -27.93  | 3.5  | 1.7398 | 28.2 |
| 7   | 21.68   | 8.0  | 1.5163 | 64.1 |
| 8   | -326.60 |      |        |      |

编号: 08-01-M71

## 中等视场目镜

E. F. L = 28 B. F. L = 3.4  $\phi_{\text{出}}/2 = 2$  F. A. =  $\pm 40^\circ$   $L_p = -18$

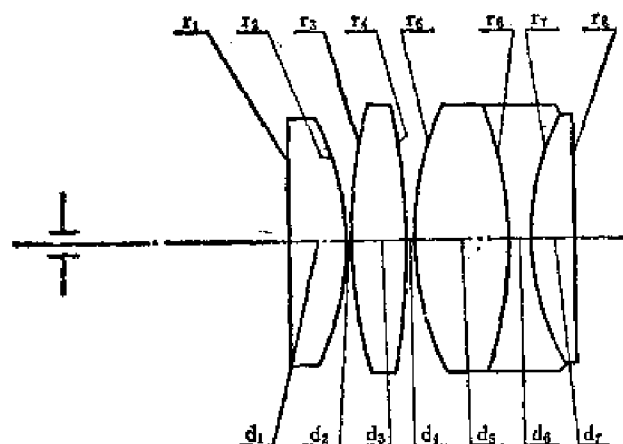


| 序 号 | r      | d    | n      | v    |
|-----|--------|------|--------|------|
| 1   | -69.18 | 7.0  | 1.5163 | 64.1 |
| 2   | -20.32 | 0.2  |        |      |
| 3   | 141.91 | 6.5  | 1.5163 | 64.1 |
| 4   | -45.71 | 0.2  |        |      |
| 5   | 31.92  | 14.5 | 1.5467 | 62.8 |
| 6   | -28.84 | 1.5  | 1.7398 | 28.2 |
| 7   | 28.84  | 10.0 | 1.5163 | 64.1 |
| 8   | -82.41 |      |        |      |

编号: 08-01-M72

## 中等视场目镜

E. F. L = 22.7 B. F. L = 10.07  $\phi_{\text{出}}/2 = 2.25$  F. A. =  $\pm 25^\circ$   $L_p = -20.54$

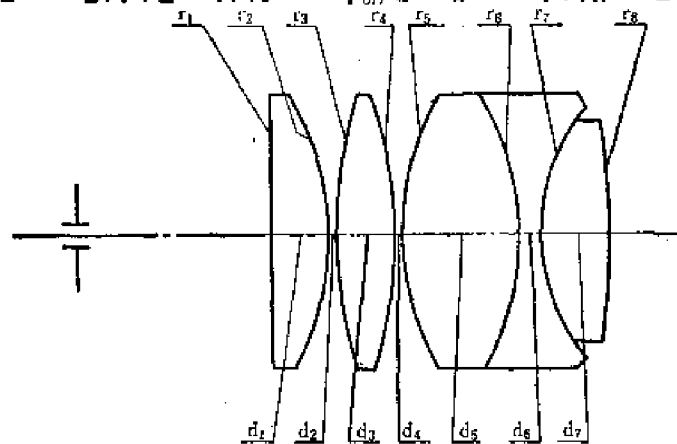


| 序 号 | r        | d   | n      | v    |
|-----|----------|-----|--------|------|
| 1   | $\infty$ | 5.0 | 1.5467 | 62.8 |
| 2   | -24.66   | 0.1 |        |      |
| 3   | 50.00    | 4.2 | 1.5467 | 62.8 |
| 4   | -167.49  | 0.1 |        |      |
| 5   | 28.84    | 8.2 | 1.5467 | 62.8 |
| 6   | -35.56   | 2.0 | 1.7550 | 27.5 |
| 7   | 24.66    | 4.2 | 1.5163 | 64.1 |
| 8   | $\infty$ |     |        |      |

编号: 08-01-M73

## 中等视场目镜

E. F. L = 20.22    B. F. L = 4.49     $\phi_{H/2} = 2$     F. A. =  $\pm 30^\circ$      $L_p = -19$

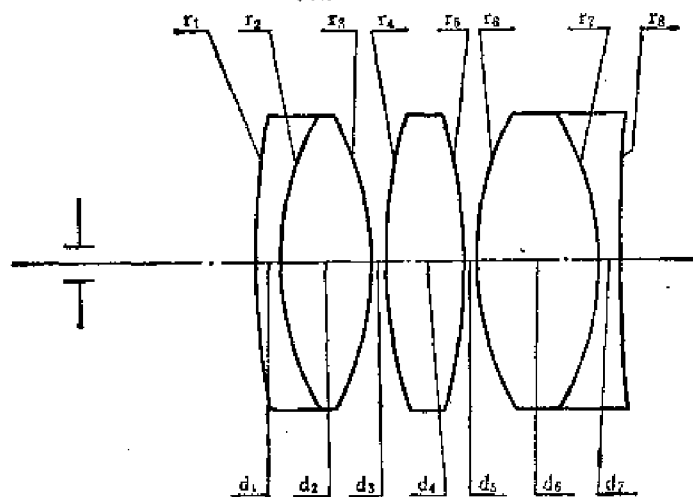


| 序 号 | r        | d    | n      | v    |
|-----|----------|------|--------|------|
| 1   | $\infty$ | 5.3  | 1.5524 | 63.3 |
| 2   | -25.24   | 0.2  |        |      |
| 3   | 50.93    | 5.5  | 1.5524 | 63.3 |
| 4   | -50.93   | 0.2  |        |      |
| 5   | 25.53    | 10.0 | 1.4874 | 70.0 |
| 6   | -25.53   | 1.8  | 1.7280 | 28.3 |
| 7   | 17.99    | 6.0  | 1.4874 | 70.0 |
| 8   | -157.04  |      |        |      |

编号: 08-01-M74

## 中等视场目镜

E. F. L = 36.83    B. F. L = 12.43     $\phi_{H/2} = 4.1$     F. A. =  $\pm 30.5^\circ$      $L_p = -27.88$



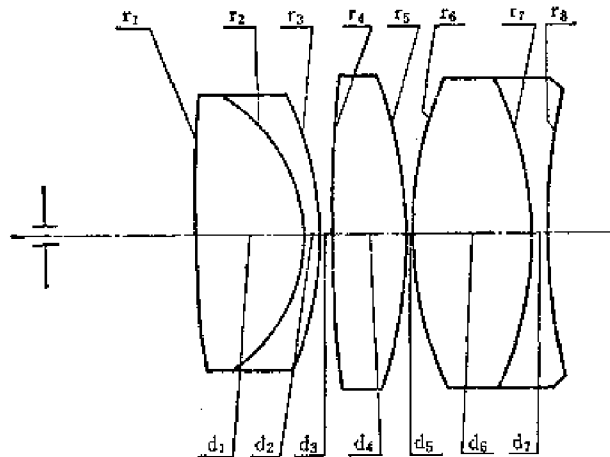
| 序 号 | r      | d    | n      | v    |
|-----|--------|------|--------|------|
| 1   | 110.15 | 3.5  | 1.7172 | 29.5 |
| 2   | 44.26  | 17.1 | 1.5163 | 64.1 |
| 3   | -50.82 | 1.3  |        |      |
| 4   | 86.61  | 12.0 | 1.5163 | 64.1 |
| 5   | -86.61 | 1.2  |        |      |
| 6   | 50.82  | 19.4 | 1.5163 | 64.1 |
| 7   | -50.82 | 3.5  | 1.7172 | 29.5 |
| 8   | 156.62 |      |        |      |



编号: 08-01-M75

## 中等视场目镜

E. F. L = 33.53    B. F. L = 17.06     $\phi_H/2 = 3.5$     F. A. =  $\pm 30^\circ$      $L_p = -20$

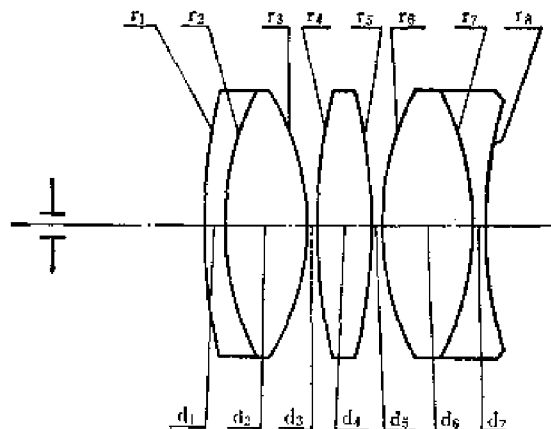


| 序 号 | r      | d    | n      |      |
|-----|--------|------|--------|------|
| 1   | 392.60 | 14.0 | 1.6073 | 59.5 |
| 2   | -22.13 | 2.2  | 1.7618 | 26.5 |
| 3   | -45.29 | 0.2  |        |      |
| 4   | 137.72 | 10.0 | 1.6073 | 59.5 |
| 5   | -64.42 | 0.2  |        |      |
| 6   | 55.59  | 15.8 | 1.6073 | 59.5 |
| 7   | -49.32 | 2.3  | 1.6477 | 33.9 |
| 8   | 92.04  |      |        |      |

编号: 08-01-M76

## 中等视场目镜

E. F. L = 30.16    B. F. L = 15.33     $\phi_H/2 = 1.5$     F. A. =  $\pm 30^\circ$      $L_p = -20.50$

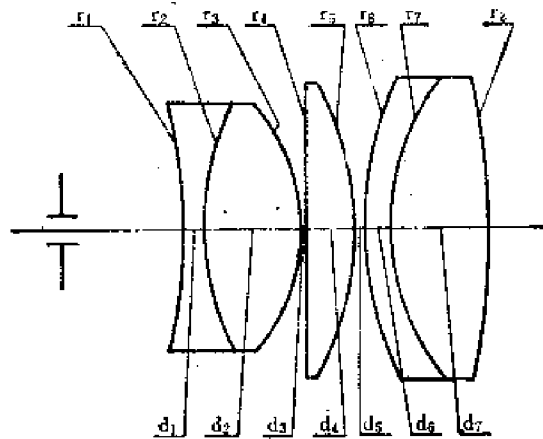


| 序 号 | r      | d     | n      | v    |
|-----|--------|-------|--------|------|
| 1   | 204.60 | 2.20  | 1.6242 | 35.9 |
| 2   | 40.93  | 11.00 | 1.5163 | 64.1 |
| 3   | -35.08 | 0.25  |        |      |
| 4   | 74.47  | 7.30  | 1.5163 | 64.1 |
| 5   | -74.47 | 0.25  |        |      |
| 6   | 39.81  | 12.20 | 1.5163 | 64.1 |
| 7   | -39.81 | 2.20  | 1.6242 | 35.9 |
| 8   | 67.30  |       |        |      |

编号: 08-01-M77

## 中等视场目镜

E. F. L = 28.09    B. F. L = 18.66     $\phi_{出}/2 = 4$     F. A. =  $\pm 35^\circ$      $L_p = -16$

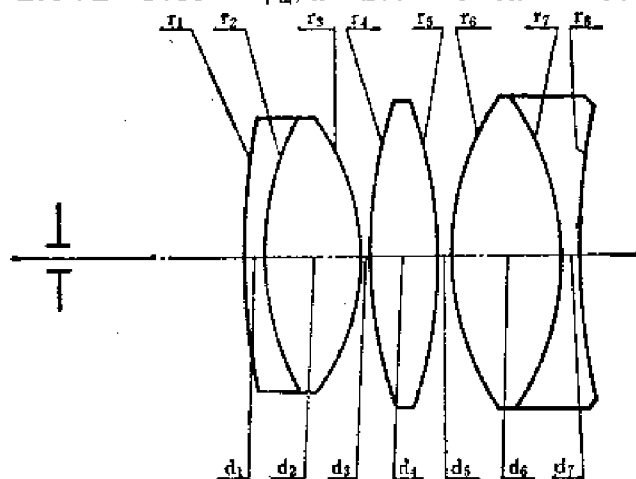


| 序 号 | r        | d    | n      | v    |
|-----|----------|------|--------|------|
| 1   | -60.12   | 2.5  | 1.6475 | 33.9 |
| 2   | 40.46    | 10.5 | 1.5724 | 57.5 |
| 3   | -26.06   | 0.3  |        |      |
| 4   | $\infty$ | 7.5  | 1.5163 | 64.1 |
| 5   | -42.07   | 0.3  |        |      |
| 6   | 54.70    | 4.0  | 1.6475 | 33.9 |
| 7   | 32.29    | 13.0 | 1.5163 | 64.1 |
| 8   | -117.49  |      |        |      |

编号: 08-01-M78

## 中等视场目镜

E. F. L = 27.51    B. F. L = 9.65     $\phi_{出}/2 = 2.8$     F. A. =  $\pm 30^\circ$      $L_p = -24.35$

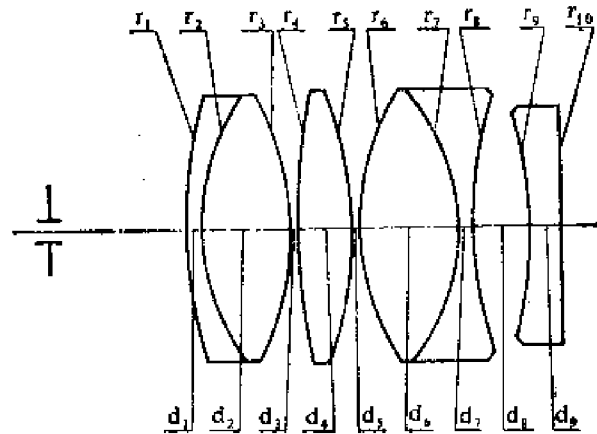


| 序 号 | r      | d     | n      | v    |
|-----|--------|-------|--------|------|
| 1   | 182.39 | 2.60  | 1.6164 | 36.9 |
| 2   | 38.34  | 13.00 | 1.5163 | 64.1 |
| 3   | -33.66 | 0.96  |        |      |
| 4   | 65.00  | 9.00  | 1.5163 | 64.1 |
| 5   | -65.00 | 0.87  |        |      |
| 6   | 38.34  | 14.60 | 1.5163 | 64.1 |
| 7   | -38.34 | 2.60  | 1.7172 | 29.5 |
| 8   | 96.16  |       |        |      |

编号: 08-01-M79-1

## 中等视场目镜

E. F. L = 25.66    B. F. L = -1.47     $\phi_{\text{出}}/2 = 1$     F. A. =  $\pm 33.5^\circ$      $L_p = -22$

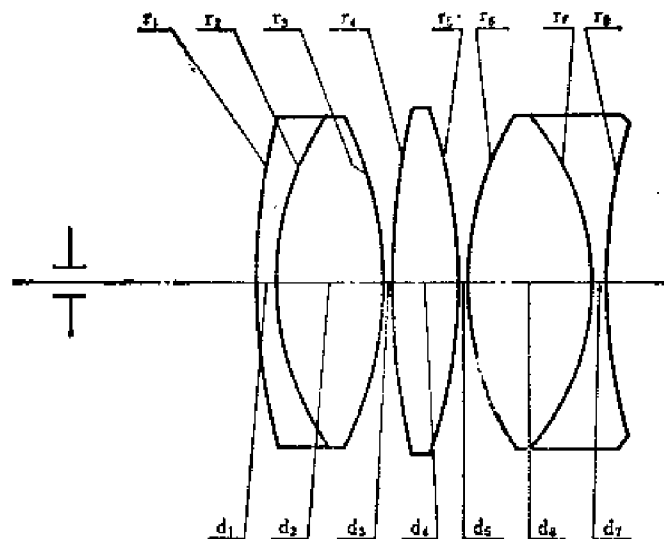


| 序 号 | r      | d     | n      | v    | 序 号 | r        | d     | n      | v    |
|-----|--------|-------|--------|------|-----|----------|-------|--------|------|
| 1   | 93.02  | 2.00  | 1.7550 | 27.5 | 6   | 38.46    | 14.00 | 1.6385 | 55.5 |
| 2   | 36.40  | 13.26 | 1.6385 | 55.5 | 7   | -32.14   | 2.00  | 1.7550 | 27.5 |
| 3   | -44.43 | 0.10  |        |      | 8   | 65.59    | 8.00  |        |      |
| 4   | 115.85 | 8.00  | 1.6385 | 55.5 | 9   | -54.00   | 5.00  | 1.5163 | 64.1 |
| 5   | -65.59 | 0.10  |        |      | 10  | $\infty$ |       |        |      |

编号: 08-01-M79-2

## 中等视场目镜

E. F. L = 25.22    B. F. L = 9.80     $\phi_{\text{出}}/2 = 1$     F. A. =  $\pm 33.5^\circ$      $L_p = -22$

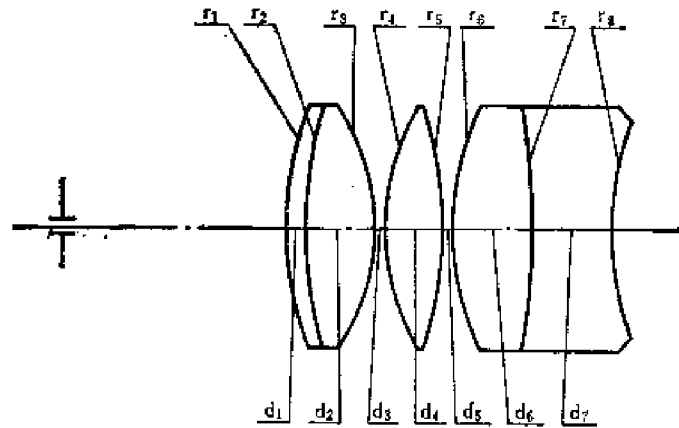


| 序 号 | r      | d     | n      | v    |
|-----|--------|-------|--------|------|
| 1   | 93.02  | 2.00  | 1.7550 | 27.5 |
| 2   | 36.40  | 13.26 | 1.6385 | 55.5 |
| 3   | -44.43 | 0.10  |        |      |
| 4   | 115.85 | 8.00  | 1.6385 | 55.5 |
| 5   | -65.59 | 0.10  |        |      |
| 6   | 38.46  | 14.00 | 1.6385 | 55.5 |
| 7   | -32.14 | 2.00  | 1.7550 | 27.5 |
| 8   | 65.59  |       |        |      |

编号: 08-01-M80

## 中等视场目镜

E. F. L = 22.78 B. F. L = 12.98  $\phi_{\text{出}}/2 = 2.8$  F. A. =  $\pm 20.5^\circ$   $L_p = -18.8$

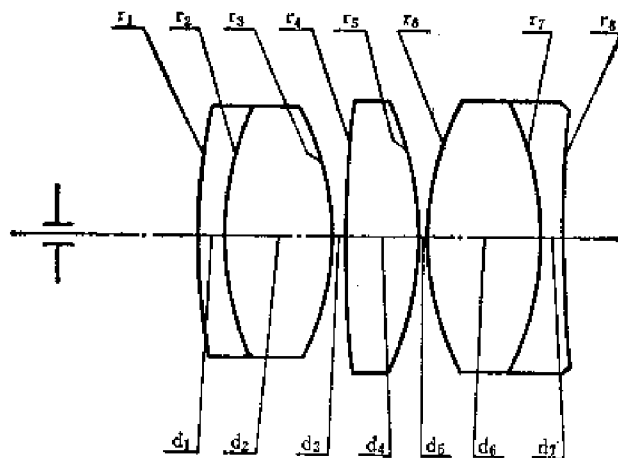


| 序 号 | r       | d   | n      | v    |
|-----|---------|-----|--------|------|
| 1   | 34.75   | 1.5 | 1.7280 | 28.3 |
| 2   | 42.07   | 6.6 | 1.5724 | 57.5 |
| 3   | -21.09  | 0.2 |        |      |
| 4   | 74.30   | 5.0 | 1.5163 | 64.1 |
| 5   | -34.75  | 0.2 |        |      |
| 6   | 22.91   | 7.0 | 1.5724 | 57.5 |
| 7   | -150.31 | 7.0 | 1.5749 | 41.3 |
| 8   | 26.55   |     |        |      |

编号: 08-01-M81

## 中等视场目镜

E. F. L = 20.19 B. F. L = 7.44  $\phi_{\text{出}}/2 = 1.9$  F. A. =  $\pm 31^\circ$   $L_p = -12.62$

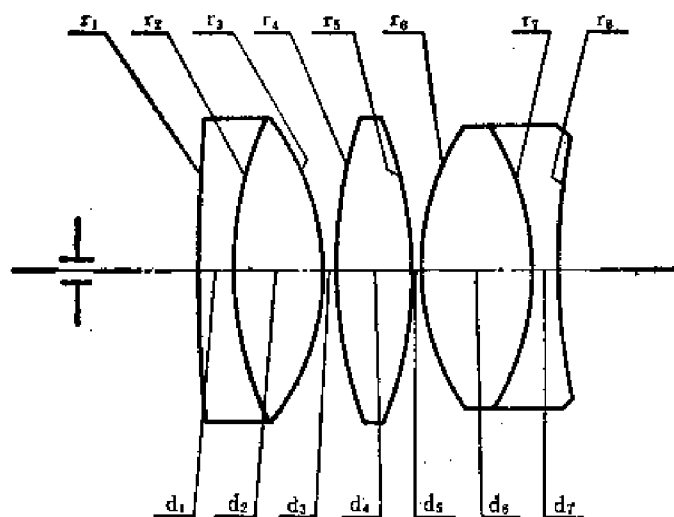


| 序 号 | r      | d    | n      | v    |
|-----|--------|------|--------|------|
| 1   | 85.51  | 2.2  | 1.7398 | 28.2 |
| 2   | 28.25  | 9.0  | 1.5163 | 64.1 |
| 3   | -24.43 | 0.8  |        |      |
| 4   | 97.72  | 6.5  | 1.5163 | 64.1 |
| 5   | -31.12 | 0.8  |        |      |
| 6   | 28.25  | 10.2 | 1.5163 | 64.1 |
| 7   | -28.25 | 2.5  | 1.7398 | 28.2 |
| 8   | 97.27  |      |        |      |

编号: 08-01-M82

## 中等视场目镜

E.F.L=20.04 B.F.L=5.80  $\phi_{\text{出}}/2=1.9$  F.A. =  $\pm 31'$   $L_p = -12.62$

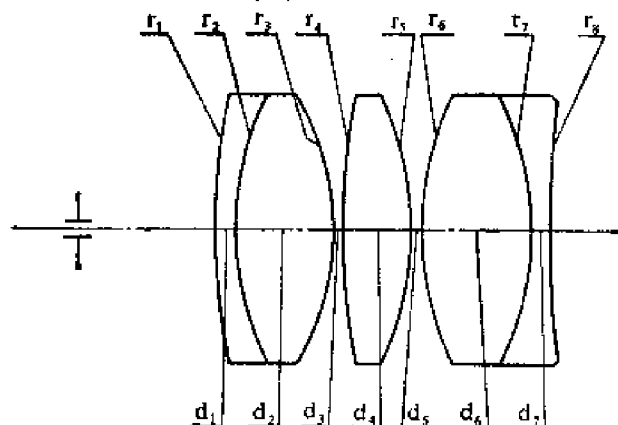


| 序 号 | r      | d    | n      | v    |
|-----|--------|------|--------|------|
| 1   | 145.88 | 8.6  | 1.7398 | 28.2 |
| 2   | 39.54  | 9.5  | 1.5467 | 62.8 |
| 3   | -26.00 | 0.3  |        |      |
| 4   | 51.76  | 8.0  | 1.5467 | 62.8 |
| 5   | -51.76 | 0.3  |        |      |
| 6   | 28.71  | 11.5 | 1.5467 | 62.8 |
| 7   | -28.71 | 3.5  | 1.7398 | 28.2 |
| 8   | 74.47  |      |        |      |

编号: 08-01-M83

## 中等视场目镜

E.F.L=15.6 B.F.L=5.68  $\phi_{\text{出}}/2=1.9$  F.A. =  $\pm 31.5'$   $L_p = -10.85$

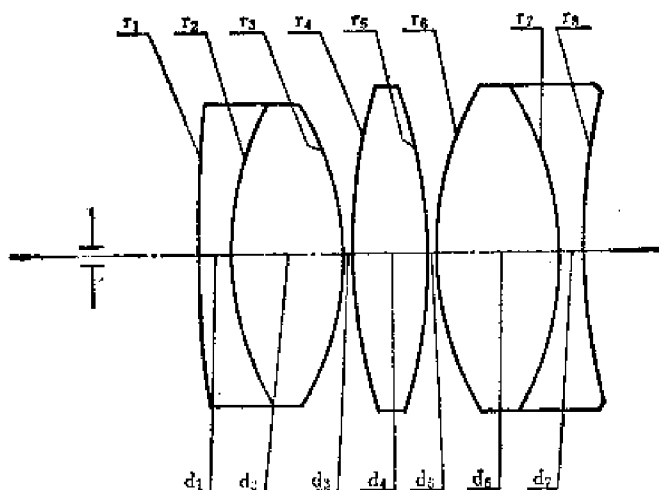


| 序 号 | r      | d    | n      | v    |
|-----|--------|------|--------|------|
| 1   | 66.68  | 1.50 | 1.7398 | 28.2 |
| 2   | 22.18  | 7.40 | 1.5163 | 64.1 |
| 3   | -19.06 | 0.55 |        |      |
| 4   | 62.37  | 5.20 | 1.5163 | 64.1 |
| 5   | -26.12 | 0.50 |        |      |
| 6   | 22.01  | 8.40 | 1.5163 | 64.1 |
| 7   | -22.01 | 1.50 | 1.7398 | 28.2 |
| 8   | 79.07  |      |        |      |

编号: 08-01-M84

## 中等视场目镜

E. F. L = 15.59    B. F. L = 5.38     $\phi_{H/2} = 1.9$     F. A. =  $\pm 34^\circ$      $L_p = -9.14$

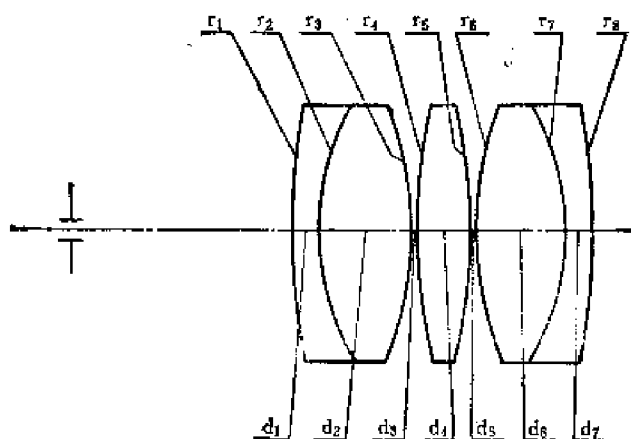


| 序 号 | r      | d   | n      | v    |
|-----|--------|-----|--------|------|
| 1   | 104.61 | 1.5 | 1.6164 | 36.6 |
| 2   | 22.01  | 7.4 | 1.5163 | 64.1 |
| 3   | -19.31 | 0.5 |        |      |
| 4   | 37.44  | 5.2 | 1.5163 | 64.1 |
| 5   | -37.44 | 0.5 |        |      |
| 6   | 22.01  | 8.4 | 1.5163 | 64.1 |
| 7   | -22.01 | 1.5 | 1.6164 | 36.6 |
| 8   | 38.04  |     |        |      |

编号: 08-01-M85

## 中等视场目镜

E. F. L = 13.21    B. F. L = 7.72     $\phi_{H/2} = 2$     F. A. =  $\pm 25^\circ$      $L_p = -12$

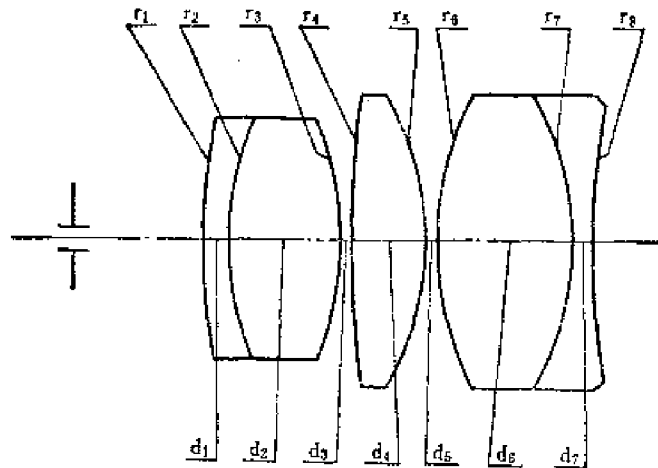


| 序 号 | r      | d   | n      | v    |
|-----|--------|-----|--------|------|
| 1   | 44.98  | 1.5 | 1.6475 | 33.9 |
| 2   | 14.26  | 4.5 | 1.5163 | 64.1 |
| 3   | -22.03 | 0.5 |        |      |
| 4   | 38.28  | 2.5 | 1.5163 | 64.1 |
| 5   | -38.28 | 0.5 |        |      |
| 6   | 22.03  | 4.5 | 1.5163 | 64.1 |
| 7   | -14.26 | 1.5 | 1.6475 | 33.9 |
| 8   | -44.98 |     |        |      |

编号: 08-01-M86

## 中等视场目镜

E. F. L = 12.71    B. F. L = 4.73     $\phi_{H/2} = 1.2$     F. A. =  $\pm 30'$      $L_p = -7.4$

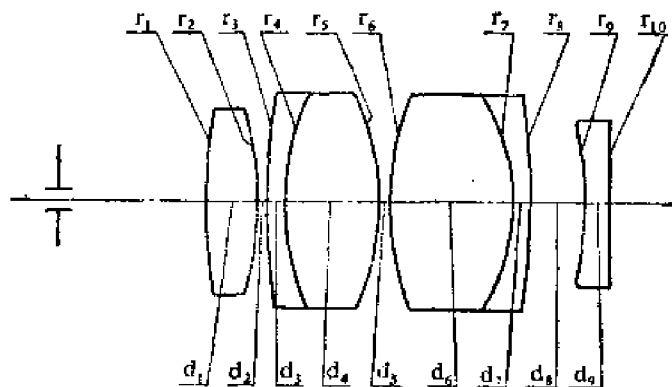


| 序 号 | r       | d    | n      | v    |
|-----|---------|------|--------|------|
| 1   | 54.200  | 1.20 | 1.7398 | 28.2 |
| 2   | 18.072  | 6.00 | 1.5163 | 64.1 |
| 3   | -15.524 | 0.45 | 1.5163 | 64.1 |
| 4   | 88.550  | 4.30 |        |      |
| 5   | -19.089 | 0.41 | 1.5163 | 64.1 |
| 6   | 17.506  | 6.80 | 1.5163 | 64.1 |
| 7   | -17.906 | 1.20 | 1.7398 | 28.2 |
| 8   | 64.420  |      |        |      |

编号: 08-01-M87-1

## 中等视场目镜

E. F. L = 27.71    B. F. L = 0.10     $\phi_{H/2} = 2.5$     F. A. =  $\pm 25'$      $L_p = -20.5$

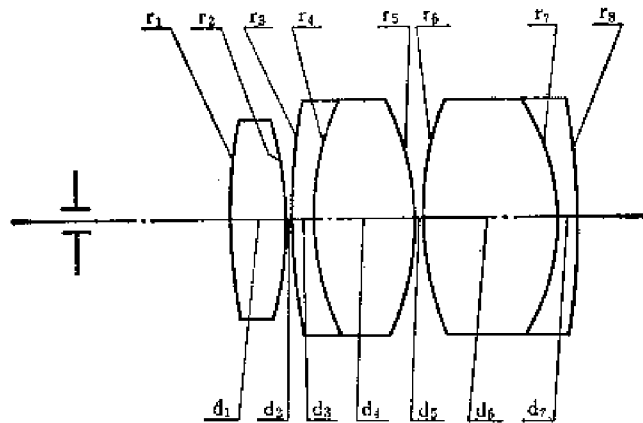


| 序 号 | r      | d     | n      | v    | 序 号 | r        | d     | n      | v    |
|-----|--------|-------|--------|------|-----|----------|-------|--------|------|
| 1   | 98.50  | 6.50  | 1.4874 | 70.0 | 6   | 44.34    | 17.50 | 1.6130 | 60.6 |
| 2   | -51.02 | 0.10  | 1.8060 | 25.4 | 7   | -30.00   | 2.50  | 1.6128 | 36.9 |
| 3   | 118.23 | 2.50  |        |      | 8   | -147.80  | 8.07  | 1.5688 | 56.0 |
| 4   | 39.40  | 14.00 | 1.4874 | 70.0 | 9   | -57.00   | 3.50  |        |      |
| 5   | -37.44 | 0.10  |        |      | 10  | $\infty$ |       |        |      |

编号: 08-01-M87-2

## 中等视场目镜

E. F. L = 27.08    B. F. L = 10.35     $\phi_{H/2} = 2.5$     F. A. =  $\pm 25^\circ$      $L_p = -20.5$

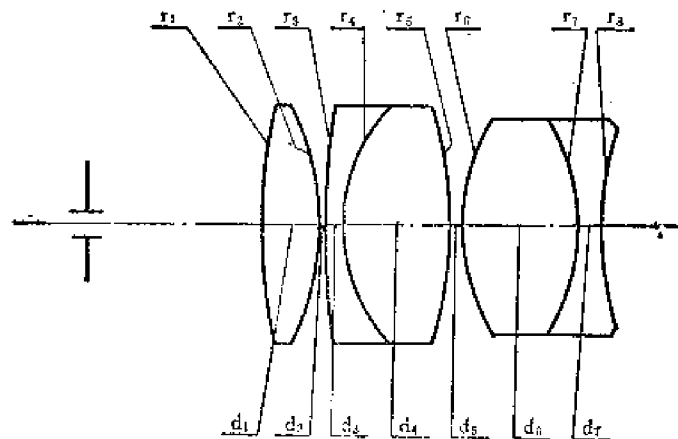


| 序 号 | r       | d    | n      | v    |
|-----|---------|------|--------|------|
| 1   | 98.50   | 6.5  | 1.4874 | 70.0 |
| 2   | -51.02  | 0.1  |        |      |
| 3   | 118.23  | 2.5  | 1.8060 | 25.4 |
| 4   | 39.40   | 14.0 | 1.4874 | 70.0 |
| 5   | -37.44  | 0.1  |        |      |
| 6   | 44.34   | 17.5 | 1.6130 | 60.6 |
| 7   | -30.00  | 2.5  | 1.6128 | 36.9 |
| 8   | -147.80 |      |        |      |

编号: 08-01-M88

## 中等视场目镜

E. F. L = 25.02    B. F. L = 7.30     $\phi_{H/2} = 2.5$     F. A. =  $\pm 25^\circ$      $L_p = -23.24$



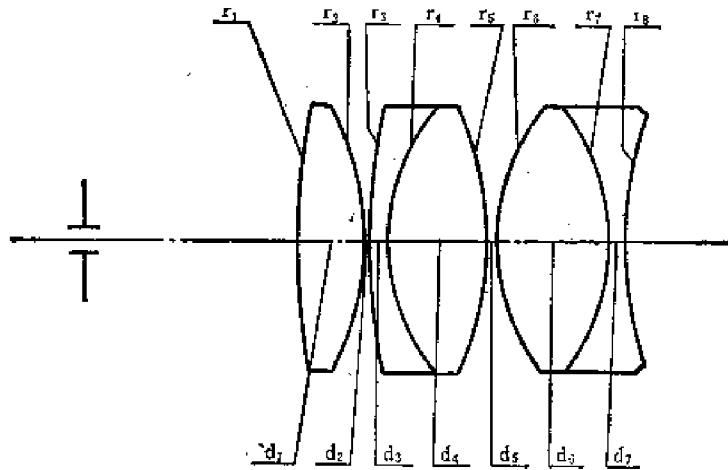
| 序 号 | r     | d    | n      | v    |
|-----|-------|------|--------|------|
| 1   | 108.6 | 6.0  | 1.5163 | 64.1 |
| 2   | -33.3 | 0.2  |        |      |
| 3   | 108.6 | 2.0  | 1.6199 | 36.3 |
| 4   | 21.8  | 11.5 | 1.5163 | 64.1 |
| 5   | -41.7 | 0.2  |        |      |
| 6   | 21.9  | 13.5 | 1.5163 | 64.1 |
| 7   | -24.9 | 2.5  | 1.6199 | 36.3 |
| 8   | 33.0  |      |        |      |



编号: 08-01-M89

## 中等视场目镜

E. F. L. = 24.91    B. F. L. = 8.62     $\phi_{\text{出}}/2 = 2$     F. A. =  $\pm 26^\circ$      $L_p = -26.2$

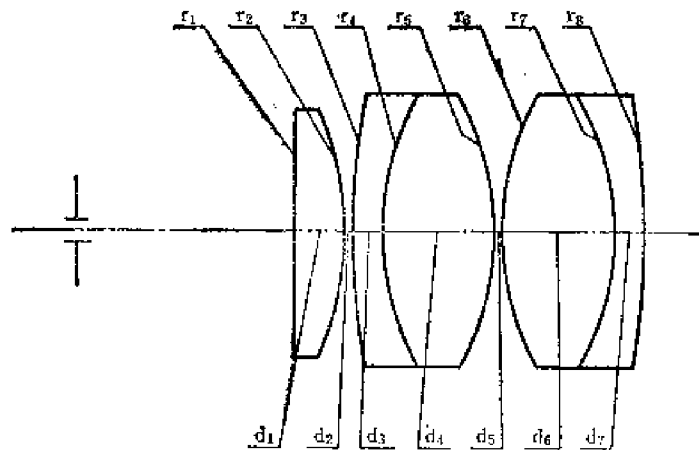


| 序 号 | r      | d    | n      | v    |
|-----|--------|------|--------|------|
| 1   | 118.85 | 7.0  | 1.5163 | 64.1 |
| 2   | -33.57 | 0.2  |        |      |
| 3   | 95.28  | 1.5  | 1.6725 | 32.2 |
| 4   | 25.24  | 11.0 | 1.5163 | 64.1 |
| 5   | -39.26 | 0.2  |        |      |
| 6   | 25.24  | 13.2 | 1.5163 | 64.1 |
| 7   | -25.24 | 1.5  | 1.6725 | 32.2 |
| 8   | 48.64  |      |        |      |

编号: 08-01-M90

## 中等视场目镜

E. F. L. = 23.81    B. F. L. = 10.75     $\phi_{\text{出}}/2 = 2$     F. A. =  $\pm 25^\circ$      $L_p = -23$

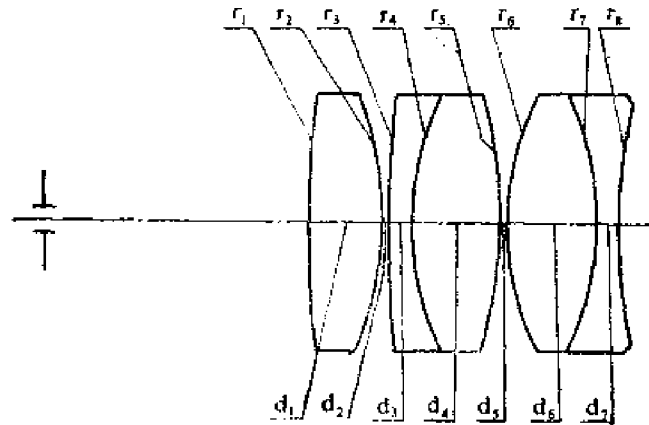


| 序 号 | r        | d    | n      | v    |
|-----|----------|------|--------|------|
| 1   | $\infty$ | 5.0  | 1.5163 | 64.1 |
| 2   | -32.140  | 0.1  |        |      |
| 3   | 125.180  | 3.0  | 1.7550 | 27.5 |
| 4   | 30.738   | 11.5 | 1.5181 | 58.9 |
| 5   | -30.738  | 0.1  |        |      |
| 6   | 30.738   | 11.5 | 1.5181 | 58.9 |
| 7   | -30.738  | 3.0  | 1.7550 | 27.5 |
| 8   | -125.180 |      |        |      |

编号: 08-01-M91

## 中等视场目镜

E. F. L = 22.63    B. F. L = 12.26     $\phi_{出}/2 = 1.6$     F. A. =  $\pm 18.5^\circ$      $L_p = -21$

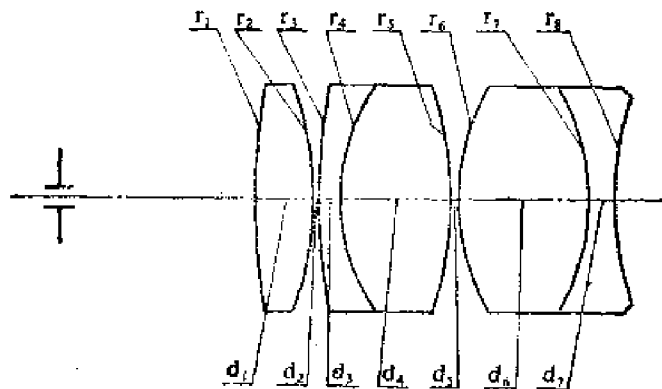


| 序 号 | r      | d   | n      | v    |
|-----|--------|-----|--------|------|
| 1   | 87.30  | 5.0 | 1.5163 | 64.1 |
| 2   | -28.05 | 0.2 |        |      |
| 3   | 84.53  | 1.5 | 1.6725 | 32.2 |
| 4   | 22.39  | 6.5 | 1.5163 | 64.1 |
| 5   | -34.91 | 0.2 |        |      |
| 6   | 22.39  | 6.5 | 1.5163 | 64.1 |
| 7   | -22.39 | 1.5 | 1.6725 | 32.2 |
| 8   | 43.25  |     |        |      |

编号: 08-01-M92

## 中等视场目镜

E. F. L = 18.00    B. F. L = 5.64     $\phi_{出}/2 = 2.8$     F. A. =  $\pm 18.5^\circ$      $L_p = -15.54$

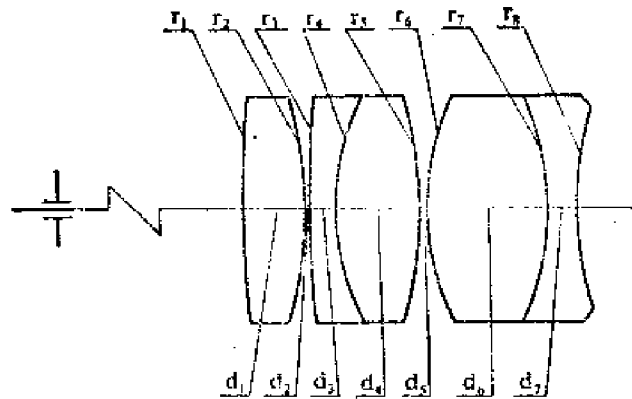


| 序 号 | r       | d   | n      | v    |
|-----|---------|-----|--------|------|
| 1   | 79.336  | 4.0 | 1.5163 | 64.1 |
| 2   | -25.590 | 0.2 |        |      |
| 3   | 79.336  | 1.4 | 1.6199 | 36.3 |
| 4   | 15.790  | 8.0 | 1.5163 | 64.1 |
| 5   | -29.440 | 0.2 |        |      |
| 6   | 17.350  | 9.5 | 1.5163 | 64.1 |
| 7   | -17.350 | 1.8 | 1.6199 | 36.3 |
| 8   | 25.590  |     |        |      |

编号: 08-01-M93

## 中等视场目镜

E. F. L = 17.77    B. F. L = 7.75     $\phi_{\text{出}}/2 = 2.1$     F. A. =  $\pm 17'$      $L_p = -17.28$

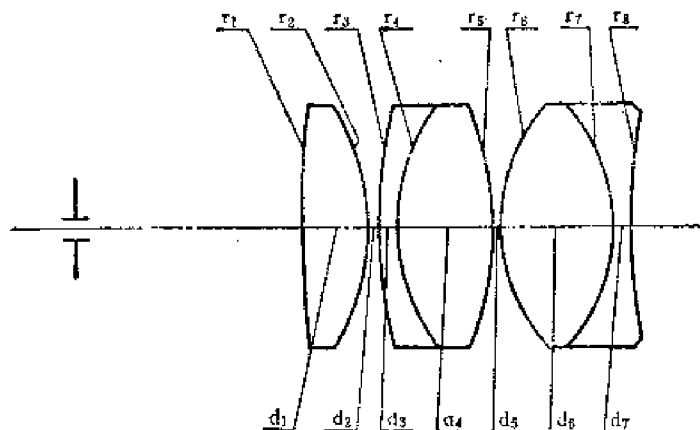


| 序 号 | r       | d   | n      | v    |
|-----|---------|-----|--------|------|
| 1   | 75.860  | 4.0 | 1.5163 | 64.1 |
| 2   | -24.380 | 0.2 |        |      |
| 3   | 75.860  | 1.4 | 1.6199 | 36.3 |
| 4   | 15.066  | 5.0 | 1.5163 | 64.1 |
| 5   | -27.730 | 0.2 |        |      |
| 6   | 16.406  | 7.0 | 1.5163 | 64.1 |
| 7   | -15.776 | 1.8 | 1.6199 | 36.3 |
| 8   | 23.010  |     |        |      |

编号: 08-01-M94

## 中等视场目镜

E. F. L = 16.21    B. F. L = 3.79     $\phi_{\text{出}}/2 = 2$     F. A. =  $\pm 23'$      $L_p = -20$

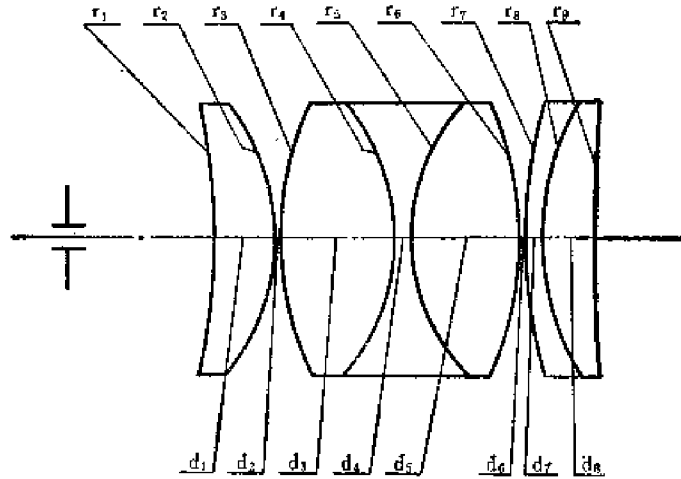


| 序 号 | r       | d    | n      | v    |
|-----|---------|------|--------|------|
| 1   | 77.980  | 5.5  | 1.5163 | 64.1 |
| 2   | -21.790 | 0.2  |        |      |
| 3   | 46.350  | 1.5  | 1.7172 | 29.5 |
| 4   | 16.396  | 8.5  | 1.5163 | 64.1 |
| 5   | -34.750 | 0.2  |        |      |
| 6   | 16.396  | 10.0 | 1.5163 | 64.1 |
| 7   | -16.396 | 1.5  | 1.7172 | 29.5 |
| 8   | 72.280  |      |        |      |

编号: 08-01-M95

## 中等视场目镜

E. F. L = 14.75    B. F. L = 4.26     $\phi_{\text{目}}/2 = 1.5$     F. A. =  $\pm 30^\circ$      $L_p = -8$

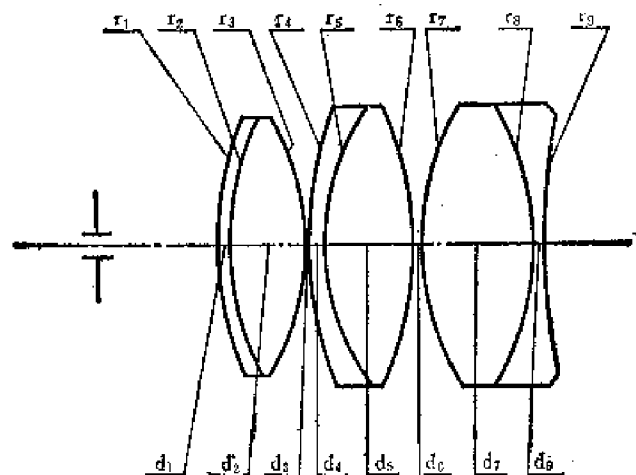


| 序 号 | r       | d   | n      | v    | 序 号 | r       | d   | n      | v    |
|-----|---------|-----|--------|------|-----|---------|-----|--------|------|
| 1   | -82.790 | 4.2 | 1.6364 | 35.4 | 6   | -19.275 | 0.1 |        |      |
| 2   | -13.062 | 0.1 |        |      | 7   | 31.700  | 1.0 | 1.6259 | 39.1 |
| 3   | 20.750  | 6.6 | 1.5100 | 63.4 | 8   | 15.776  | 3.3 | 1.5820 | 42.0 |
| 4   | -11.641 | 0.9 | 1.6725 | 32.2 | 9   | 131.830 |     |        |      |
| 5   | 12.853  | 6.6 | 1.5100 | 63.4 |     |         |     |        |      |

编号: 08-01-M96

## 中等视场目镜

E. F. L = 40.09    B. F. L = 9.35     $\phi_{\text{目}}/2 = 1$     F. A. =  $\pm 42^\circ$      $L_p = -24$

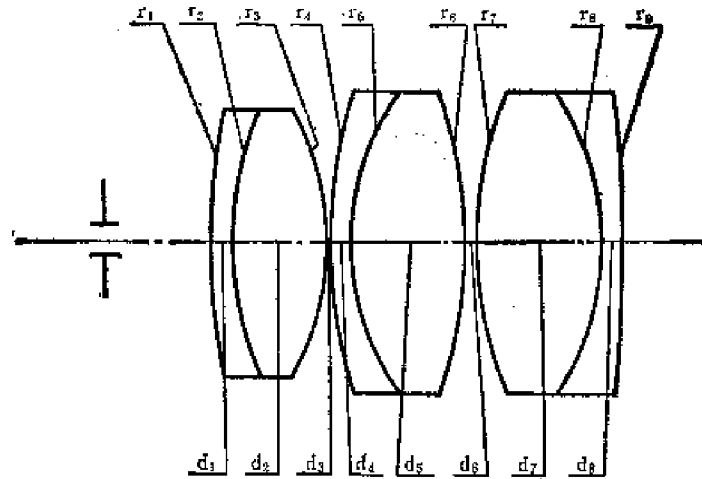


| 序 号 | r      | d    | n      | v    | 序 号 | r      | d    | n      | v    |
|-----|--------|------|--------|------|-----|--------|------|--------|------|
| 1   | 180.30 | 3.6  | 1.7283 | 28.3 | 6   | -77.80 | 0.4  |        |      |
| 2   | 67.14  | 16.5 | 1.5567 | 58.5 | 7   | 62.37  | 24.6 | 1.5163 | 64.1 |
| 3   | -57.15 | 0.4  |        |      | 8   | -65.01 | 3.6  | 1.6483 | 33.8 |
| 4   | 98.86  | 3.6  | 1.7283 | 28.3 | 9   | 159.22 |      |        |      |
| 5   | 56.36  | 20.9 | 1.5567 | 58.5 |     |        |      |        |      |

编号: 08-01-M97

## 中等视场目镜

E. F. L = 36.69 B. F. L = 13.67  $\phi_{\text{出}}/2 = 4.1$  F. A. =  $\pm 31^\circ$   $L_p = -19.941$

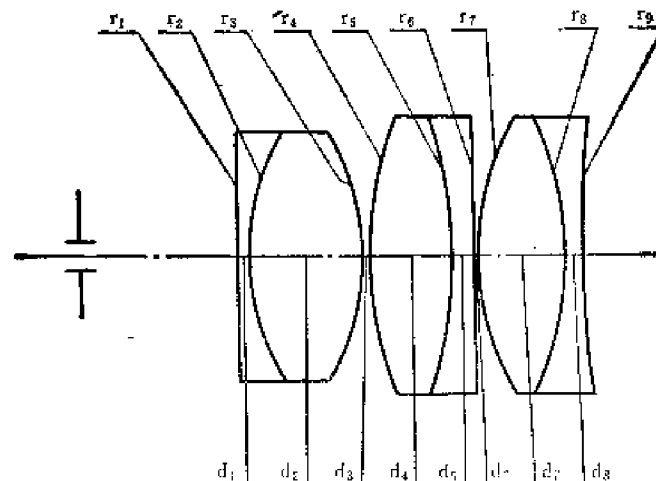


| 序 号 | r      | d     | n      | v    | 序 号 | r       | d     | n      | v    |
|-----|--------|-------|--------|------|-----|---------|-------|--------|------|
| 1   | 262.21 | 3.00  | 1.6199 | 36.3 | 6   | -72.48  | 0.24  |        |      |
| 2   | 50.82  | 14.40 | 1.5163 | 64.1 | 7   | 60.90   | 19.20 | 1.5163 | 64.1 |
| 3   | -44.26 | 0.24  |        |      | 8   | -50.94  | 3.00  | 1.6475 | 33.9 |
| 4   | 102.33 | 3.60  | 1.6475 | 33.9 | 9   | -208.06 |       |        |      |
| 5   | 42.17  | 18.00 | 1.5163 | 64.1 |     |         |       |        |      |

编号: 08-01-M98

## 中等视场目镜

E. F. L = 34.38 B. F. L = 15.96  $\phi_{\text{出}}/2 = 3$  F. A. =  $\pm 30^\circ$   $L_p = -24$

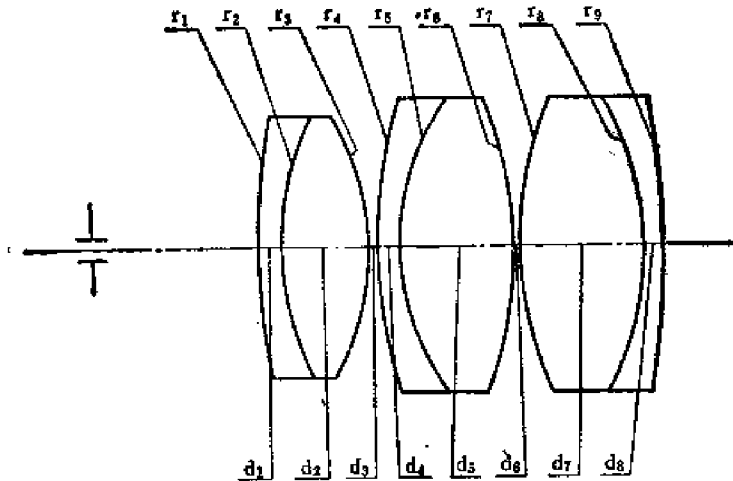


| 序 号 | r        | d    | n      | v    | 序 号 | r        | d    | n      | v    |
|-----|----------|------|--------|------|-----|----------|------|--------|------|
| 1   | $\infty$ | 2.0  | 1.6709 | 47.2 | 6   | $\infty$ | 0.2  |        |      |
| 2   | 38.02    | 18.0 | 1.6204 | 60.3 | 7   | 47.97    | 13.0 | 1.5163 | 64.1 |
| 3   | -38.02   | 0.2  |        |      | 8   | -59.98   | 2.4  | 1.7550 | 27.5 |
| 4   | 59.98    | 11.9 | 1.6204 | 60.3 | 9   | 239.90   |      |        |      |
| 5   | -69.98   | 2.4  | 1.7550 | 27.5 |     |          |      |        |      |

编号: 08-01-M99

## 中等视场目镜

E.F.L=30.62 B.F.L=11.45  $\phi_H/2=2.8$  F.A. =  $\pm 29^\circ$   $L_p = -23.35$

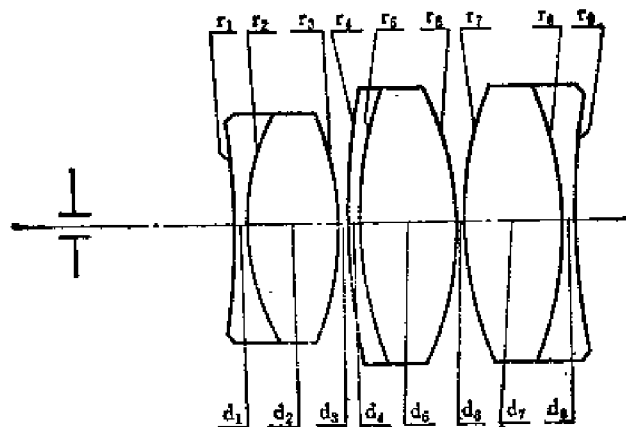


| 序 号 | r      | d    | n      | v    | 序 号 | r       | d    | n      | v    |
|-----|--------|------|--------|------|-----|---------|------|--------|------|
| 1   | 220.80 | 2.5  | 1.6199 | 36.3 | 6   | -60.40  | 0.2  |        |      |
| 2   | 42.36  | 12.0 | 1.5163 | 64.1 | 7   | 50.82   | 16.0 | 1.5163 | 64.1 |
| 3   | -36.98 | 0.2  |        |      | 8   | -42.17  | 2.5  | 1.6475 | 33.9 |
| 4   | 85.11  | 3.0  | 1.6475 | 33.9 | 9   | -173.38 |      |        |      |
| 5   | 35.18  | 15.0 | 1.5163 | 64.1 |     |         |      |        |      |

编号: 08-01-M100

## 中等视场目镜

E.F.L=25.03 B.F.L=14.46  $\phi_H/2=2$  F.A. =  $\pm 30^\circ$   $L_p = -16.5$

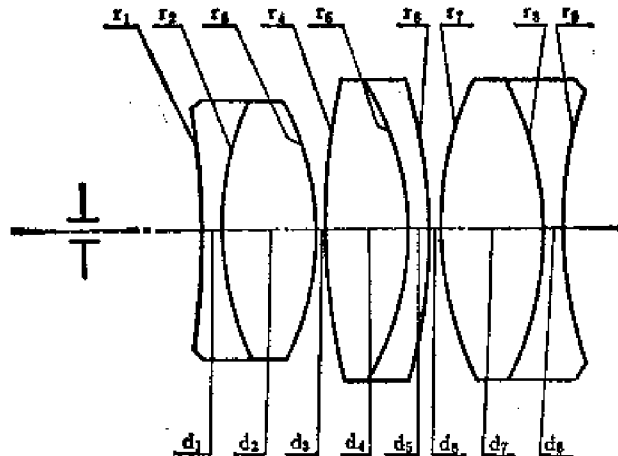


| 序 号 | r       | d    | n      | v    | 序 号 | r      | d    | n      | v    |
|-----|---------|------|--------|------|-----|--------|------|--------|------|
| 1   | -198.61 | 1.3  | 1.6641 | 35.4 | 6   | -34.99 | 0.1  |        |      |
| 2   | 26.06   | 10.0 | 1.6032 | 42.5 | 7   | 38.64  | 10.0 | 1.5182 | 65.2 |
| 3   | -29.11  | 0.3  |        |      | 8   | -33.64 | 1.5  | 1.7550 | 27.5 |
| 4   | 198.61  | 1.5  | 1.7550 | 27.5 | 9   | 309.00 |      |        |      |
| 5   | 45.08   | 10.0 | 1.6204 | 60.3 |     |        |      |        |      |

编号: 08-01-M101

## 中等视场目镜

E. F. L = 20.28    B. F. L = 8.79     $\phi_{\text{出}}/2 = 2$     F. A. =  $\pm 30^\circ$      $L_p = -14.8$

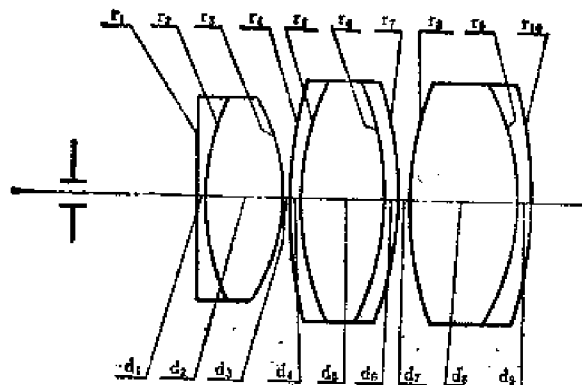


| 序号 | r       | d   | n      | v    | 序号 | r      | d   | n      | v    |
|----|---------|-----|--------|------|----|--------|-----|--------|------|
| 1  | -351.60 | 2.0 | 1.6890 | 30.9 | 6  | -60.53 | 0.2 |        |      |
| 2  | 32.28   | 8.3 | 1.6204 | 60.3 | 7  | 30.34  | 9.2 | 1.6204 | 60.3 |
| 3  | -24.38  | 0.2 |        |      | 8  | -30.34 | 2.0 | 1.6890 | 30.9 |
| 4  | 60.53   | 7.3 | 1.6204 | 60.3 | 9  | 44.06  |     |        |      |
| 5  | -28.25  | 2.0 | 1.6490 | 33.8 |    |        |     |        |      |

编号: 08-01-M102

## 中等视场目镜

E. F. L = 24.94    B. F. L = 12.39     $\phi_{\text{出}}/2 = 2$     F. A. =  $\pm 30^\circ$      $L_p = -18.5$

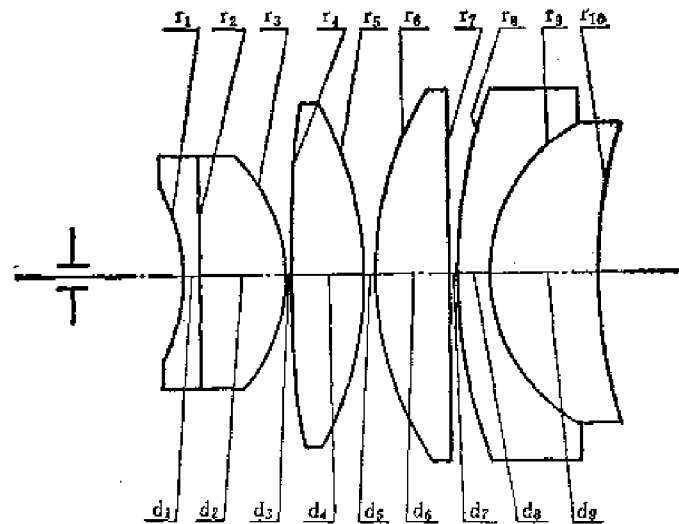


| 序号 | r        | d     | n      | v    | 序号 | r      | d     | n      | v    |
|----|----------|-------|--------|------|----|--------|-------|--------|------|
| 1  | $\infty$ | 1.00  | 1.6475 | 33.9 | 6  | -39.63 | 1.00  | 1.6398 | 34.6 |
| 2  | 33.34    | 9.84  | 1.5163 | 64.1 | 7  | -52.36 | 0.20  |        |      |
| 3  | -28.84   | 0.20  |        |      | 8  | 42.85  | 13.80 | 1.5163 | 64.1 |
| 4  | 79.43    | 1.00  | 1.6475 | 33.9 | 9  | -33.34 | 1.00  | 1.6475 | 33.9 |
| 5  | 39.63    | 10.30 | 1.5163 | 64.1 | 10 | -71.78 |       |        |      |

编号: 08-01-M103

## 大 视 场 目 镜

E.F.L=28.13 B.F.L=14.70  $\phi_{出}/2=1.8$  F.A. =  $\pm 40'$   $L_p = -14.54$

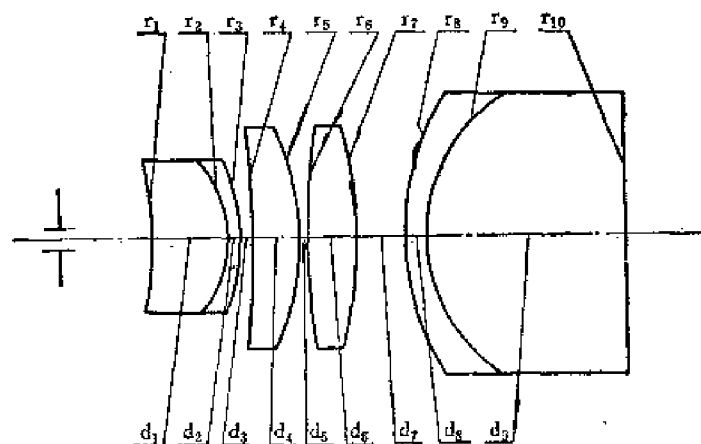


| 序 号 | r        | d    | n       | v    | 序 号 | r        | d    | n       | v    |
|-----|----------|------|---------|------|-----|----------|------|---------|------|
| 1   | -25.35   | 2.4  | 1.80600 | 25.4 | 6   | 46.88    | 10.2 | 1.62040 | 60.3 |
| 2   | $\infty$ | 12.0 | 1.61380 | 56.3 | 7   | $\infty$ | 0.1  |         |      |
| 3   | -23.12   | 0.1  |         |      | 8   | 75.51    | 4.0  | 1.72800 | 28.3 |
| 4   | 448.70   | 9.4  | 1.62040 | 60.3 | 9   | 22.70    | 15.0 | 1.54800 | 45.9 |
| 5   | -46.88   | 0.1  |         |      | 10  | 68.55    |      |         |      |

编号: 08-01-M104

## 大 视 场 目 镜

E.F.L=27.93 B.F.L=0.85  $\phi_{出}/2=2$  F.A. =  $\pm 40'$   $L_p = -12.00$



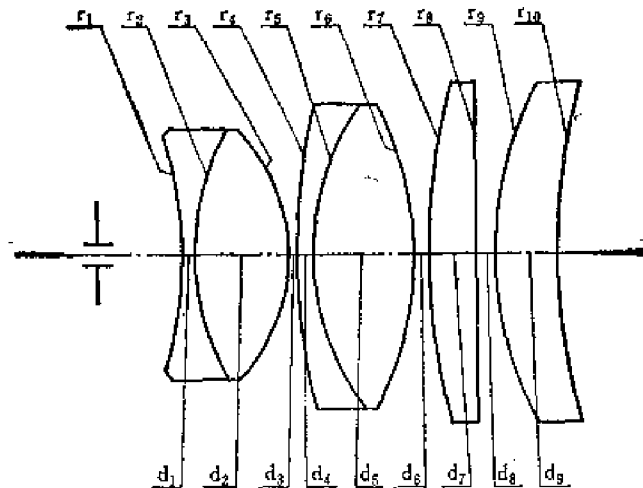
| 序 号 | r        | d    | n      | v     | 序 号 | r        | d    | n      | v     |
|-----|----------|------|--------|-------|-----|----------|------|--------|-------|
| 1   | -41.780  | 10.0 | 1.6516 | 58.49 | 6   | 346.700  | 6.4  | 1.6516 | 58.49 |
| 2   | -14.689  | 0.9  | 1.7408 | 27.70 | 7   | -74.990  | 7.7  |        |       |
| 3   | -27.670  | 0.2  |        |       | 8   | 36.560   | 2.2  | 1.6475 | 33.90 |
| 4   | -146.890 | 6.3  | 1.6516 | 58.49 | 9   | 21.730   | 27.2 | 1.5212 | 62.77 |
| 5   | -41.020  | 0.2  |        |       | 10  | $\infty$ |      |        |       |



编号: 08-01-M105

## 大 视 场 目 镜

E.F.L=25.0 B.F.L=9.6  $\phi_{\text{出}}/2=2.2$  F.A. =  $\pm 47^\circ$   $L_p = -10.55$

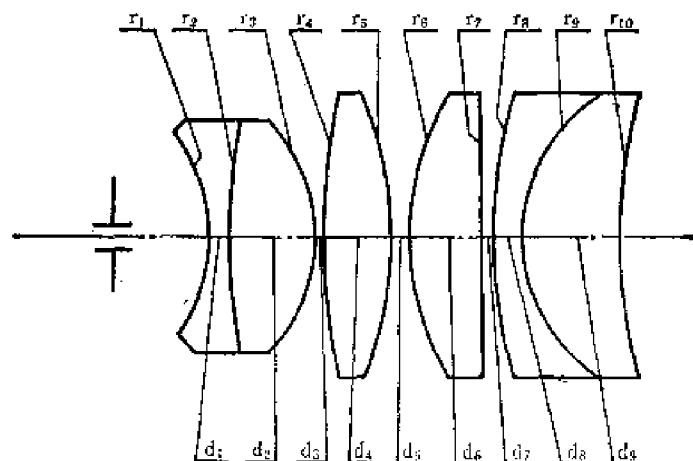


| 序 号 | r      | d    | n      | v    | 序 号 | r        | d   | n      | v    |
|-----|--------|------|--------|------|-----|----------|-----|--------|------|
| 1   | -53.46 | 2.0  | 1.6128 | 36.9 | 6   | -45.92   | 1.5 |        |      |
| 2   | 36.31  | 12.5 | 1.6126 | 58.3 | 7   | 100.00   | 6.0 | 1.5163 | 64.1 |
| 3   | -24.10 | 0.2  |        |      | 8   | $\infty$ | 2.7 |        |      |
| 4   | 96.61  | 2.0  | 1.7550 | 27.5 | 9   | 54.08    | 8.0 | 1.5163 | 64.1 |
| 5   | 36.31  | 14.0 | 1.5891 | 61.2 | 10  | 116.91   |     |        |      |

编号: 08-01-M106

## 大 视 场 目 镜

E.F.L=22.77 B.F.L=11.01  $\phi_{\text{出}}/2=2.2$  F.A. =  $\pm 37.5^\circ$   $L_p = -10.30$

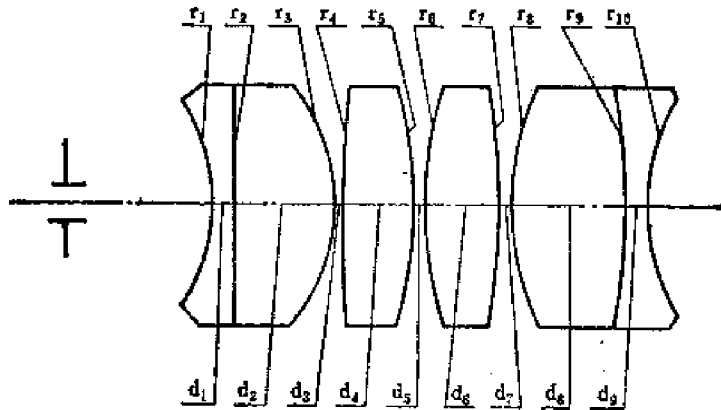


| 序 号 | r      | d    | n      | v    | 序 号 | r        | d     | n      | v    |
|-----|--------|------|--------|------|-----|----------|-------|--------|------|
| 1   | -20.99 | 2.00 | 1.7280 | 28.3 | 6   | 37.50    | 8.15  | 1.6204 | 60.3 |
| 2   | 500.00 | 9.60 | 1.6138 | 56.3 | 7   | $\infty$ | 0.10  |        |      |
| 3   | -20.99 | 0.10 |        |      | 8   | 60.26    | 3.20  | 1.7280 | 28.3 |
| 4   | 100.00 | 7.51 | 1.6204 | 60.3 | 9   | 18.16    | 12.00 | 1.5480 | 45.9 |
| 5   | -45.50 | 0.10 |        |      | 10  | 54.70    |       |        |      |

编号: 08-01-M107

## 大视场目镜

E.F.L=12.69 B.F.L=5.5  $\phi_{出}/2=1$  F.A.= $\pm 30'$   $L_p=-8.7$

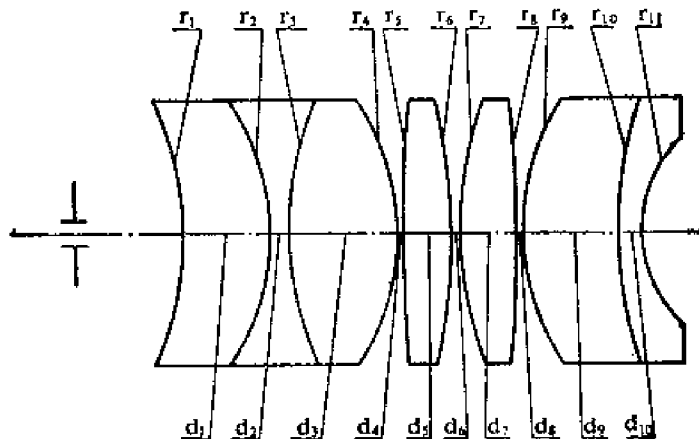


| 序 号 | r        | d   | n      | v    | 序 号 | r        | d   | n      | v    |
|-----|----------|-----|--------|------|-----|----------|-----|--------|------|
| 1   | -14.125  | 1.4 | 1.7550 | 27.5 | 6   | 26.240   | 4.9 | 1.6130 | 60.6 |
| 2   | $\infty$ | 6.5 | 1.5891 | 61.2 | 7   | -294.400 | 0.3 |        |      |
| 3   | -12.589  | 0.1 |        |      | 8   | 16.558   | 7.5 | 1.6126 | 58.3 |
| 4   | 129.720  | 4.9 | 1.6130 | 60.6 | 9   | -41.590  | 1.5 | 1.7280 | 28.3 |
| 5   | -29.040  | 0.1 |        |      | 10  | 12.417   |     |        |      |

编号: 08-01-M108

## 大视场目镜

E.F.L=27.00 B.F.L=15.01  $\phi_{出}/2=1.9$  F.A.= $\pm 40'$   $L_p=-14.55$

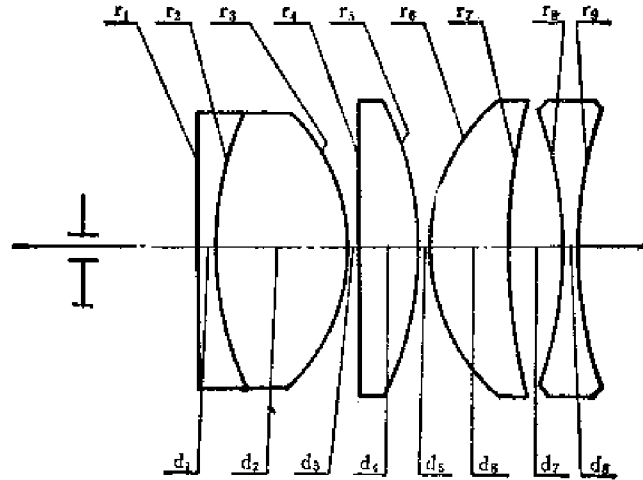


| 序 号 | r       | d    | n       | v     | 序 号 | r       | d    | n       | v     |
|-----|---------|------|---------|-------|-----|---------|------|---------|-------|
| 1   | -48.19  | 13.0 | 1.62040 | 60.30 | 7   | 61.52   | 7.4  | 1.69200 | 54.50 |
| 2   | -36.14  | 3.0  | 1.76182 | 26.53 | 8   | -306.20 | 0.3  |         |       |
| 3   | 63.83   | 16.0 | 1.62040 | 60.30 | 9   | 31.33   | 14.0 | 1.78847 | 50.48 |
| 4   | -36.98  | 0.3  |         |       | 10  | 72.11   | 3.0  | 1.85026 | 32.23 |
| 5   | 181.13  | 7.4  | 1.69200 | 54.50 | 11  | 18.45   |      |         |       |
| 6   | -104.23 | 0.3  |         |       |     |         |      |         |       |

编号: 08-01-M109

## 大视场目镜

E.F.L=19.99 B.F.L=4.02  $\phi_{\text{视}}/2=1.5$  F.A.= $\pm 45^\circ$   $L_p=-13$

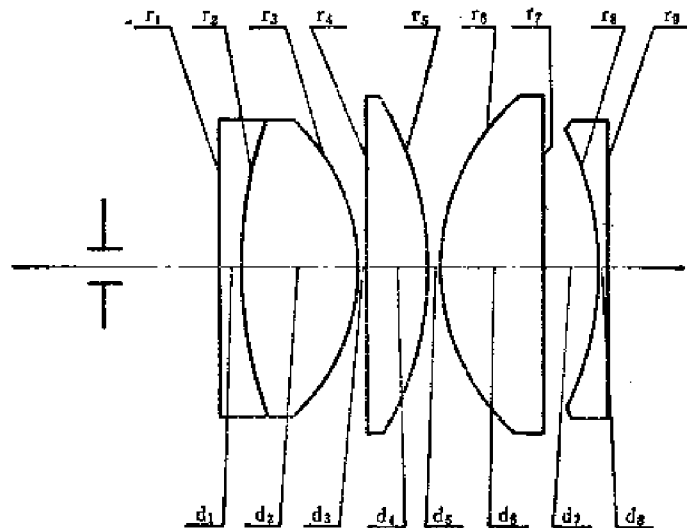


| 序号 | r        | d     | n      | v    | 序号 | r      | d    | n      | v    |
|----|----------|-------|--------|------|----|--------|------|--------|------|
| 1  | $\infty$ | 2.08  | 1.8060 | 25.4 | 6  | 24.49  | 3.69 | 1.6568 | 51.1 |
| 2  | 43.45    | 14.54 | 1.6130 | 60.6 | 7  | 79.00  | 5.92 |        |      |
| 3  | -22.91   | 0.21  |        |      | 8  | -55.30 | 2.18 | 1.8060 | 25.4 |
| 4  | $\infty$ | 7.11  | 1.5688 | 62.9 | 9  | 61.62  |      |        |      |
| 5  | -39.50   | 0.21  |        |      |    |        |      |        |      |

编号: 08-01-M110

## 大视场目镜

E.F.L=18.99 B.F.L=3.06  $\phi_{\text{视}}/2=1.5$  F.A.= $\pm 45^\circ$   $L_p=-13$

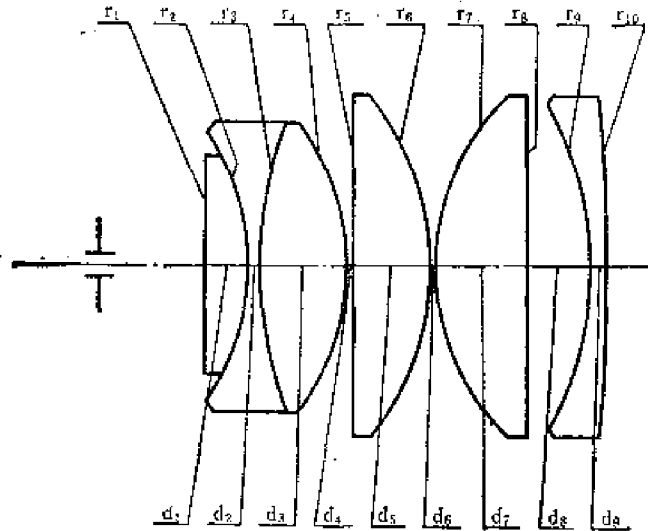


| 序号 | r        | d    | n      | v    | 序号 | r        | d    | n      | v    |
|----|----------|------|--------|------|----|----------|------|--------|------|
| 1  | $\infty$ | 2.0  | 1.8060 | 25.4 | 6  | 28.0     | 11.5 | 1.6126 | 58.3 |
| 2  | 50.0     | 14.0 | 1.6126 | 58.3 | 7  | $\infty$ | 5.8  |        |      |
| 3  | -24.2    | 0.2  |        |      | 8  | -37.0    | 1.0  | 1.8060 | 25.4 |
| 4  | $\infty$ | 7.0  | 1.6126 | 58.3 | 9  | $\infty$ |      |        |      |
| 5  | -40.0    | 0.2  |        |      |    |          |      |        |      |

编号: 08-01-M111

## 大视场目镜

E.F.L=15.99    B.F.L=2.26     $\phi_{\text{出}}/2=2$     F.A.= $\pm 45^\circ$      $L_p=-9.50$

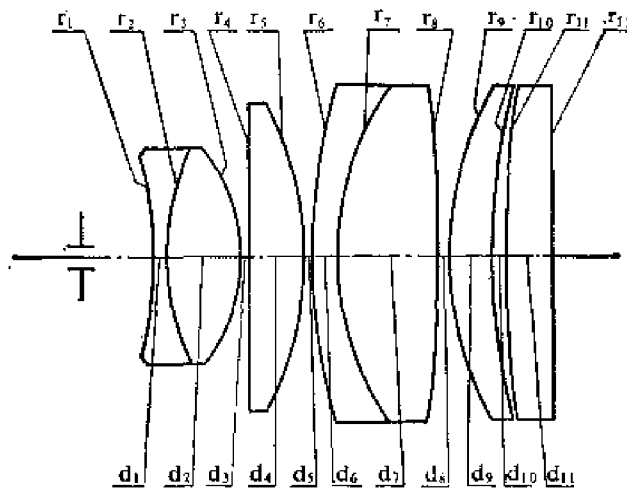


| 序 号 | r        | d    | n      | v    | 序 号 | r        | d    | n      | v    |
|-----|----------|------|--------|------|-----|----------|------|--------|------|
| 1   | $\infty$ | 3.60 | 1.6126 | 58.3 | 6   | -27.67   | 0.10 |        |      |
| 2   | -23.07   | 1.30 | 1.7280 | 28.3 | 7   | 23.07    | 8.70 | 1.6126 | 58.3 |
| 3   | 46.13    | 8.20 | 1.6126 | 58.3 | 8   | $\infty$ | 6.22 |        |      |
| 4   | -23.07   | 0.10 |        |      | 9   | -31.82   | 1.00 | 1.7280 | 28.3 |
| 5   | $\infty$ | 6.90 | 1.6126 | 58.3 | 10  | -645.50  |      |        |      |

编号: 08-01-M112

## 大视场目镜

E.F.L=25    B.F.L=5     $\phi_{\text{出}}/2=2$     F.A.= $\pm 53^\circ$      $L_p=-10$

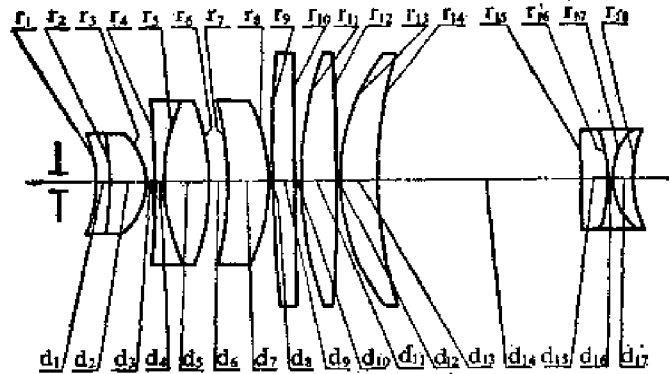


| 序 号 | r        | d    | n      | v    | 序 号 | r        | d     | n      | v    |
|-----|----------|------|--------|------|-----|----------|-------|--------|------|
| 1   | -59.28   | 1.78 | 1.6475 | 33.9 | 7   | 46.14    | 14.23 | 1.6126 | 58.3 |
| 2   | 39.26    | 9.48 | 1.6126 | 58.3 | 8   | -131.21  | 0.24  |        |      |
| 3   | -25.11   | 0.24 |        |      | 9   | 61.99    | 7.11  | 1.5163 | 64.1 |
| 4   | $\infty$ | 8.30 | 1.5163 | 64.1 | 10  | 95.93    | 1.42  |        |      |
| 5   | -47.42   | 0.24 |        |      | 11  | 141.89   | 7.11  | 1.5163 | 64.1 |
| 6   | 83.56    | 3.56 | 1.7398 | 28.2 | 12  | $\infty$ |       |        |      |

编号: 08-01-M113

## 大视场目镜

E.F.L=10.01 B.F.L=-21.81  $\phi_{\text{出}}/2=0.7$  F.A.= $\pm 60^\circ$   $L_p=-6.30$

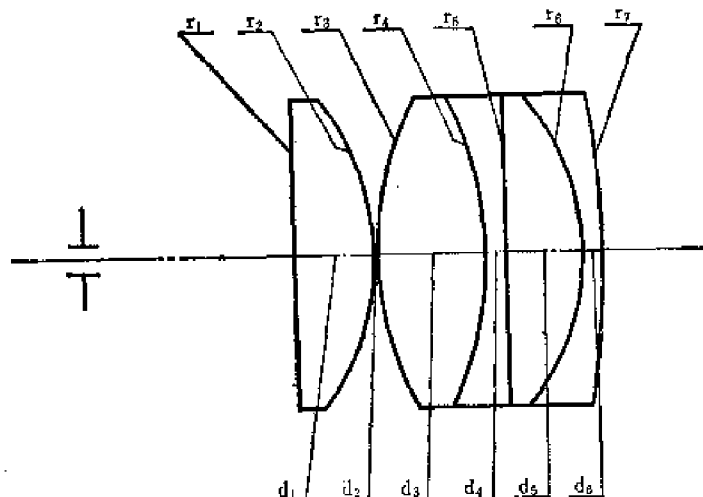


| 序 号 | r        | d    | n      | v    | 序 号 | r        | d     | n      | v    |
|-----|----------|------|--------|------|-----|----------|-------|--------|------|
| 1   | -26.550  | 1.70 | 1.7280 | 28.3 | 10  | $\infty$ | 0.12  |        |      |
| 2   | -93.540  | 6.50 | 1.6031 | 60.7 | 11  | 75.340   | 5.75  | 1.6080 | 46.2 |
| 3   | -14.289  | 0.19 |        |      | 12  | -255.900 | 0.12  |        |      |
| 4   | -510.500 | 2.30 | 1.7280 | 28.3 | 13  | 42.950   | 6.50  | 1.6204 | 60.3 |
| 5   | 38.280   | 8.80 | 1.6031 | 60.7 | 14  | 85.700   | 39.33 |        |      |
| 6   | -38.280  | 0.12 |        |      | 15  | $\infty$ | 5.02  | 1.6031 | 37.9 |
| 7   | -94.840  | 7.66 | 1.6204 | 60.3 | 16  | -29.790  | 1.42  | 1.6031 | 60.7 |
| 8   | -45.500  | 0.12 |        |      | 17  | 13.583   | 4.25  | 1.7280 | 28.3 |
| 9   | 114.290  | 3.83 | 1.6204 | 60.3 | 18  | 25.290   |       |        |      |

编号: 08-01-M114

## 长工作距离目镜

E.F.L=26.91 B.F.L=12.20  $\phi_{\text{出}}/2=2$  F.A.= $\pm 30^\circ$   $L_p=-20.25$

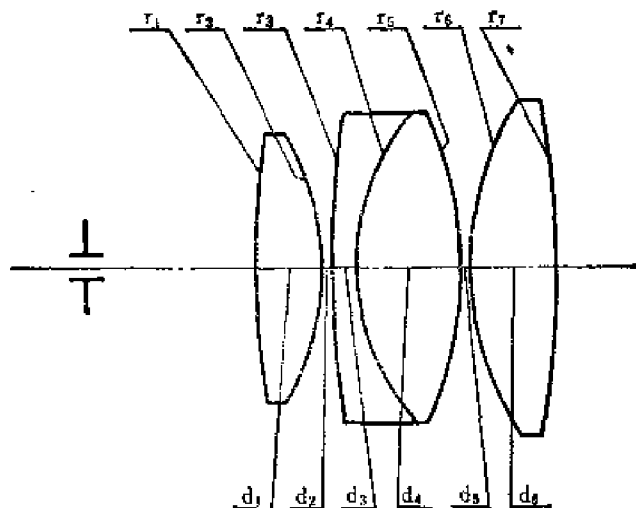


| 序 号 | r        | d    | n      | v    | 序 号 | r        | d   | n      | v    |
|-----|----------|------|--------|------|-----|----------|-----|--------|------|
| 1   | $\infty$ | 7.5  | 1.5795 | 53.9 | 5   | $\infty$ | 6.8 | 1.5163 | 64.1 |
| 2   | -24.04   | 0.2  |        |      | 6   | -24.95   | 2.0 | 1.6475 | 33.9 |
| 3   | 30.55    | 10.5 | 1.5467 | 62.8 | 7   | -165.20  |     |        |      |
| 4   | -32.81   | 2.0  | 1.7280 | 28.3 |     |          |     |        |      |

编号: 08-01-M115

### 长工作距离目镜

E.F.L=25.67    B.F.L=14.91     $\phi_H/2=2.5$     F.A.= $\pm 35^\circ$      $L_p=-18$

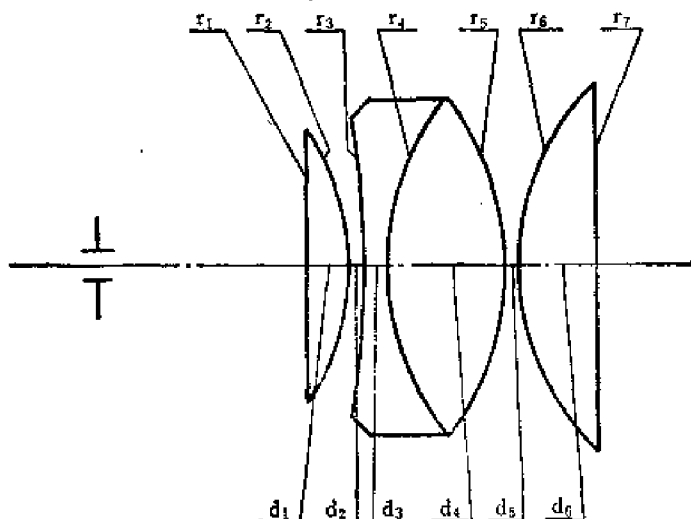


| 序 号 | r       | d    | n      | v    |
|-----|---------|------|--------|------|
| 1   | 130.02  | 7.0  | 1.5524 | 63.3 |
| 2   | -27.48  | 0.2  |        |      |
| 3   | 227.09  | 2.5  | 1.7280 | 28.3 |
| 4   | 25.76   | 11.0 | 1.5163 | 64.1 |
| 5   | -60.39  | 0.2  |        |      |
| 6   | 35.89   | 8.5  | 1.5524 | 63.3 |
| 7   | -558.50 |      |        |      |

编号: 08-01-M116

### 长工作距离目镜

E.F.L=25.00    B.F.L=16.72     $\phi_H/2=1.5$     F.A.= $\pm 33^\circ$      $L_p=-22.00$

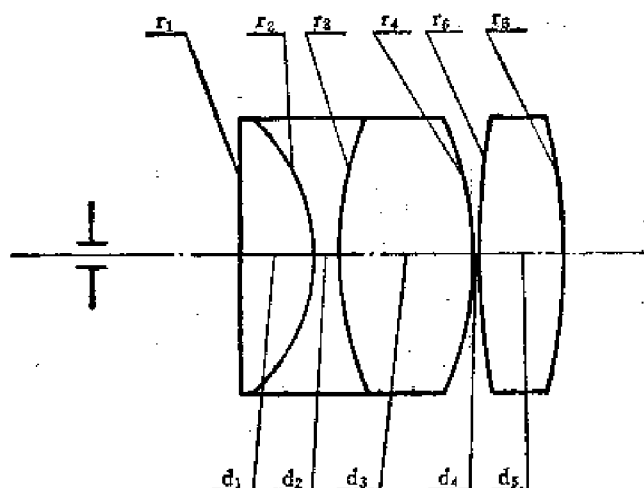


| 序 号 | r        | d     | n      | v    | 序 号 | r        | d    | n      | v    |
|-----|----------|-------|--------|------|-----|----------|------|--------|------|
| 1   | $\infty$ | 5.19  | 1.5163 | 64.1 | 5   | -32.20   | 0.17 |        |      |
| 2   | -25.17   | 0.17  |        |      | 6   | 28.54    | 8.43 | 1.5163 | 64.1 |
| 3   | -218.21  | 2.59  | 1.7398 | 28.2 | 7   | $\infty$ |      |        |      |
| 4   | 28.54    | 11.93 | 1.5163 | 64.1 |     |          |      |        |      |

编号: 08-01-M117

## 长工作距离目镜

E.F.L=24.74 B.F.L=25.53  $\phi_{\text{出}}/2=1$  F.A.= $\pm 15^\circ$   $L_p=-16$

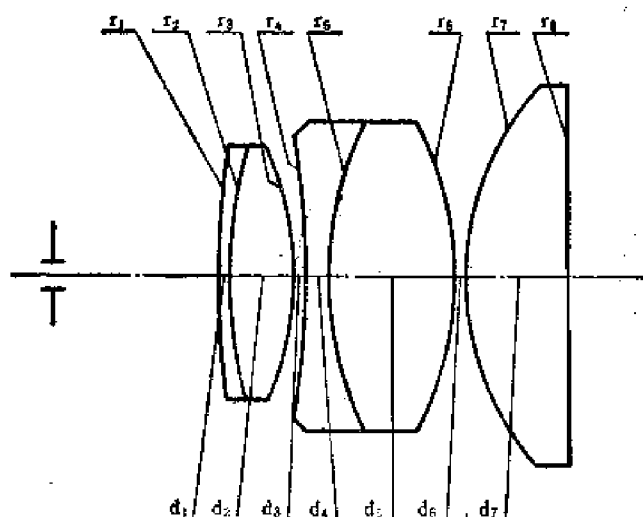


| 序 号 | r        | d   | n      | v    |
|-----|----------|-----|--------|------|
| 1   | $\infty$ | 3.5 | 1.5163 | 64.1 |
| 2   | -10.28   | 1.0 | 1.6475 | 33.9 |
| 3   | 20.51    | 7.0 | 1.5399 | 59.7 |
| 4   | -20.51   | 0.1 |        |      |
| 5   | 53.95    | 4.0 | 1.6128 | 36.9 |
| 6   | -36.81   |     |        |      |

编号: 08-01-M118

## 长工作距离目镜

E.F.L=20.01 B.F.L=12.23  $\phi_{\text{出}}/2=2$  F.A.= $\pm 33^\circ$   $L_p=-13$

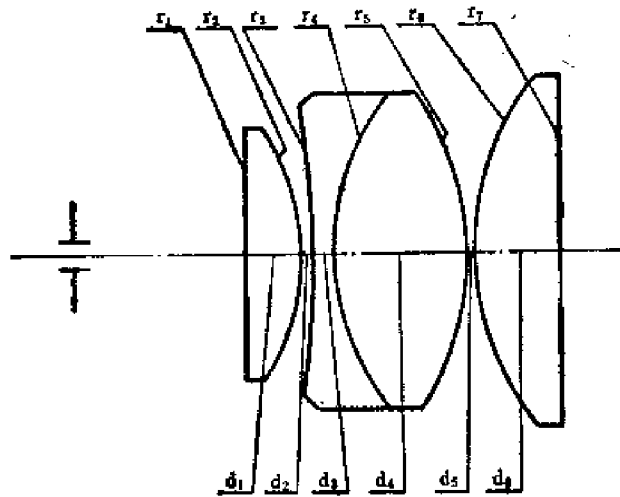


| 序 号 | r       | d    | n      | v    | 序 号 | r        | d    | n      | v    |
|-----|---------|------|--------|------|-----|----------|------|--------|------|
| 1   | 155.33  | 1.00 | 1.7398 | 28.2 | 5   | 29.26    | 9.70 | 1.5163 | 64.1 |
| 2   | 45.31   | 5.10 | 1.5163 | 64.1 | 6   | -26.44   | 0.13 |        |      |
| 3   | -20.71  | 0.13 |        |      | 7   | 23.35    | 8.20 | 1.5163 | 28.2 |
| 4   | -178.75 | 2.10 | 1.7398 | 28.2 | 8   | $\infty$ |      |        |      |

编号: 08-01-M119

## 长工作距离目镜

E.F.L=19.28    B.F.L=12.92     $\phi_{出}/2=2$     F.A.= $\pm 32^\circ$      $L_p=-13$

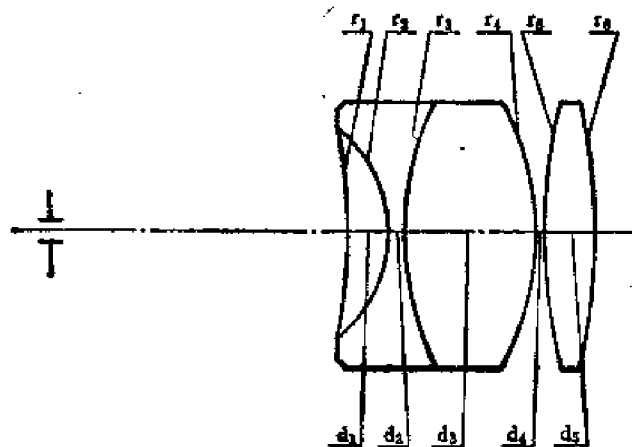


| 序 号 | r        | d    | n      | v    |
|-----|----------|------|--------|------|
| 1   | $\infty$ | 4.00 | 1.5163 | 64.1 |
| 2   | -19.41   | 0.13 |        |      |
| 3   | -168.27  | 2.00 | 1.7398 | 28.2 |
| 4   | 21.88    | 9.20 | 1.5163 | 64.1 |
| 5   | -24.83   | 0.13 |        |      |
| 6   | 22.01    | 6.50 | 1.5163 | 64.1 |
| 7   | $\infty$ |      |        |      |

编号: 08-01-M120

## 长工作距离目镜

E.F.L=20.60    B.F.L=24.6     $\phi_{出}/2=1.5$     F.A.= $\pm 20^\circ$      $L_p=-16$



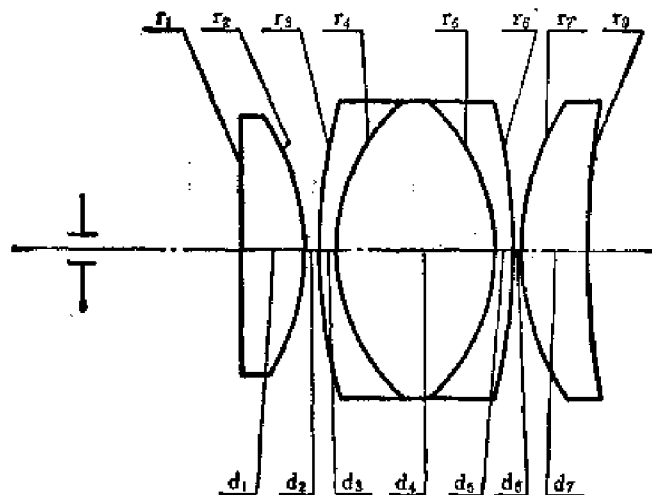
| 序 号 | r       | d   | n      | v    |
|-----|---------|-----|--------|------|
| 1   | -29.170 | 2.0 | 1.5163 | 64.1 |
| 2   | -7.465  | 0.8 | 1.8641 | 35.4 |
| 3   | 16.904  | 7.2 | 1.5724 | 57.5 |
| 4   | -13.996 | 0.2 |        |      |
| 5   | 31.990  | 2.4 | 1.6110 | 55.8 |
| 6   | -41.210 |     |        |      |



编号: 08-01-M121

## 长工作距离目镜

E.F.L=20.19 B.F.L=7.94  $\phi_{\text{出}}/2=2$  F.A.= $\pm 37.5^\circ$   $L_p=-16.00$

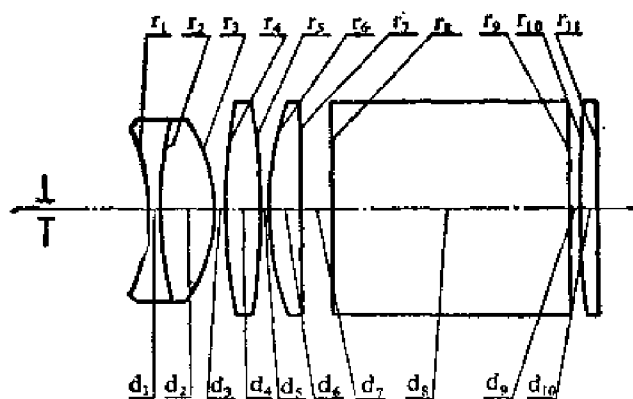


| 序 号 | r        | d    | n      | v    |
|-----|----------|------|--------|------|
| 1   | $\infty$ | 6.0  | 1.6088 | 58.9 |
| 2   | -24.32   | 0.2  |        |      |
| 3   | 89.54    | 1.5  | 1.6889 | 31.1 |
| 4   | 21.04    | 17.0 | 1.6968 | 55.6 |
| 5   | -21.04   | 1.5  | 1.6889 | 31.1 |
| 6   | -80.54   | 0.2  |        |      |
| 7   | 27.80    | 6.0  | 1.6204 | 60.3 |
| 8   | 86.90    |      |        |      |

编号: 08-01-M122-1

## 长工作距离目镜

E.F.L=20.00 B.F.L=0  $\phi_{\text{出}}/2=2$  F.A.= $\pm 28^\circ$   $L_p=-13$



| 序 号 | r       | d    | n      | v    | 序 号 | r        | d     | n      | v    |
|-----|---------|------|--------|------|-----|----------|-------|--------|------|
| 1   | -18.967 | 1.20 | 1.7280 | 28.3 | 7   | $\infty$ | 8.00  |        |      |
| 2   | 40.740  | 5.50 | 1.6220 | 56.7 | 8   | $\infty$ | 23.20 | 1.5688 | 56.0 |
| 3   | -14.655 | 0.05 |        |      | 9   | $\infty$ | 1.23  |        |      |
| 4   | 61.940  | 3.50 | 1.6220 | 56.7 | 10  | 251.200  | 2.20  | 1.5163 | 64.1 |
| 5   | -67.300 | 0.10 |        |      | 11  | $\infty$ |       |        |      |
| 6   | 35.970  | 3.20 | 1.6220 | 56.7 |     |          |       |        |      |

编号: 08-01-M122-2

### 长工作距离目镜

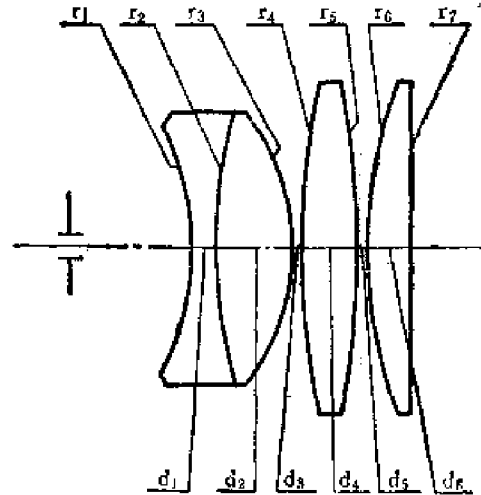
E.F.L=20.06

B.F.L=20.47

$\phi_H/2=2$

F.A.= $\pm 28^\circ$

$L_p=-13$



| 序 号 | r        | d    | n      | v    |
|-----|----------|------|--------|------|
| 1   | -18.967  | 1.20 | 1.7280 | 28.3 |
| 2   | 40.740   | 5.50 | 1.6220 | 56.7 |
| 3   | -14.655  | 0.05 |        |      |
| 4   | 61.940   | 3.50 | 1.6220 | 56.7 |
| 5   | -67.300  | 0.10 |        |      |
| 6   | 35.970   | 3.20 | 1.6220 | 56.7 |
| 7   | $\infty$ |      |        |      |

编号: 08-01-M123-1

### 长工作距离目镜

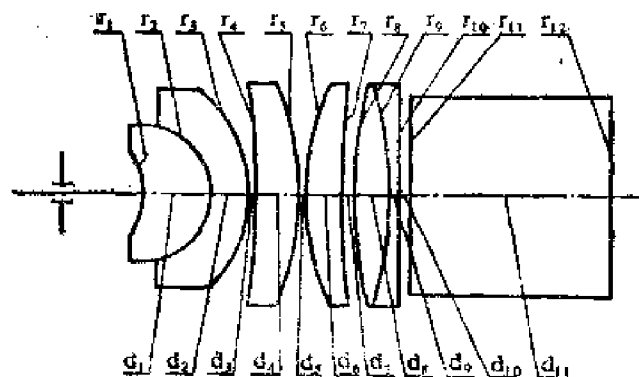
E.F.L=17.28

B.F.L=2.98

$\phi_H/2=1.5$

F.A.= $\pm 25^\circ$

$L_p=-12$



| 序 号 | r        | d    | n       | v     |
|-----|----------|------|---------|-------|
| 1   | -10.27   | 10.2 | 1.88069 | 41.01 |
| 2   | -10.00   | 5.4  | 1.95249 | 20.36 |
| 3   | -19.20   | 0.1  |         |       |
| 4   | -251.00  | 7.2  | 1.69100 | 54.50 |
| 5   | -40.30   | 0.1  |         |       |
| 6   | 42.90    | 5.4  | 1.69200 | 54.50 |
| 7   | 1710.00  | 1.5  |         |       |
| 8   | 64.00    | 4.8  | 1.69200 | 54.50 |
| 9   | -67.00   | 1.2  | 1.84666 | 23.83 |
| 10  | $\infty$ | 1.0  |         |       |
| 11  | $\infty$ | 30.0 | 1.51630 | 64.10 |
| 12  | $\infty$ |      |         |       |

编号: 08-01-M123-2

## 长工作距离目镜

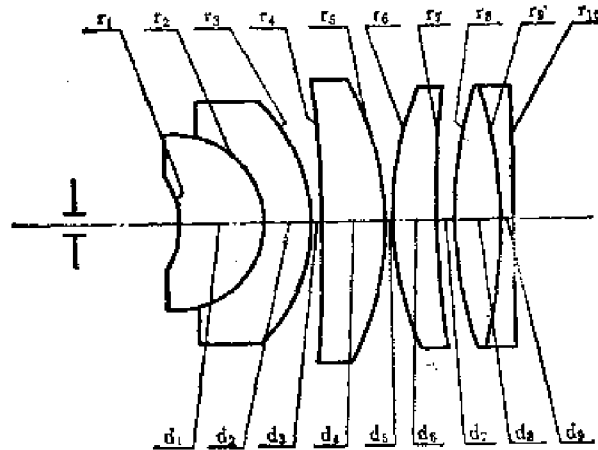
E.F.L=17.28

B.F.L=23.77

$\phi_{\text{出}}/2=1.5$

F.A.= $\pm 25^\circ$

$L_p=-12$



| 序 号 | r        | d    | n      | v     |
|-----|----------|------|--------|-------|
| 1   | -10.27   | 10.2 | 1.8806 | 41.01 |
| 2   | -10.00   | 5.4  | 1.9525 | 20.36 |
| 3   | -19.20   | 0.1  |        |       |
| 4   | -251.00  | 7.2  | 1.6920 | 54.50 |
| 5   | -40.30   | 0.1  |        |       |
| 6   | 42.90    | 5.4  | 1.6920 | 54.50 |
| 7   | 1710.00  | 1.5  |        |       |
| 8   | 64.00    | 4.8  | 1.6920 | 54.50 |
| 9   | -67.00   | 1.2  | 1.8466 | 23.83 |
| 10  | $\infty$ |      |        |       |

编号: 08-01-M124

## 长工作距离目镜

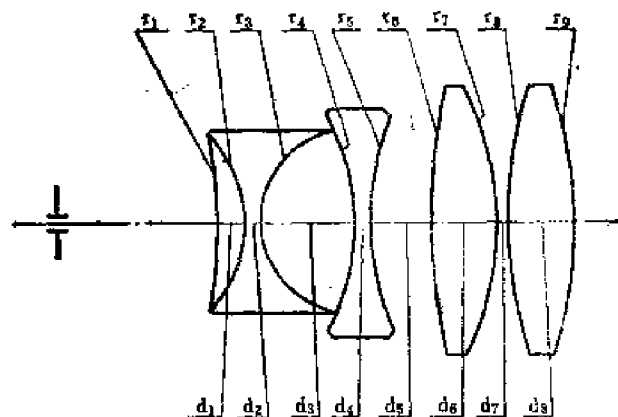
E.F.L=12.60

B.F.L=14.63

$\phi_{\text{出}}/2=1$

F.A.= $\pm 15^\circ$

$L_p=-6.8$

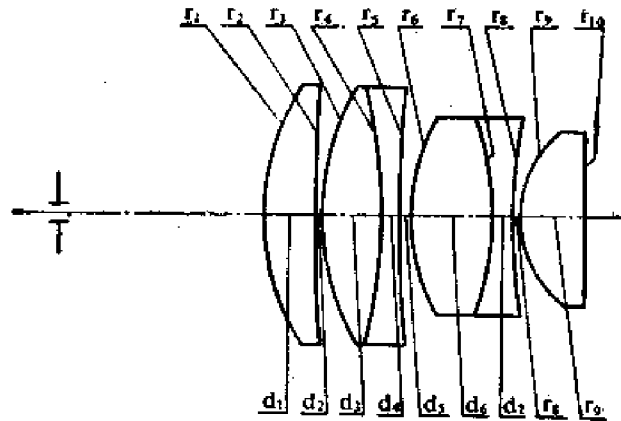


| 序 号 | r       | d    | n      | v    | 序 号 | r       | d    | n      | v    |
|-----|---------|------|--------|------|-----|---------|------|--------|------|
| 1   | -40.734 | 1.30 | 1.6220 | 56.7 | 6   | 33.995  | 2.93 | 1.5101 | 63.4 |
| 2   | -5.800  | 0.80 | 1.6200 | 36.3 | 7   | -13.188 | 0.05 |        |      |
| 3   | 4.060   | 4.00 | 1.6220 | 56.7 | 8   | 19.637  | 2.93 | 1.5101 | 63.4 |
| 4   | -10.599 | 1.00 | 1.5160 | 56.8 | 9   | -19.637 |      |        |      |
| 5   | 11.722  | 2.73 |        |      |     |         |      |        |      |

编号: 08-01-M125

## 大孔径目镜

E.F.L=50.40 B.F.L=9.51  $\phi_{\text{出}}/2=3.5$  F.A.= $\pm 17.5'$   $L_p=-60.00$

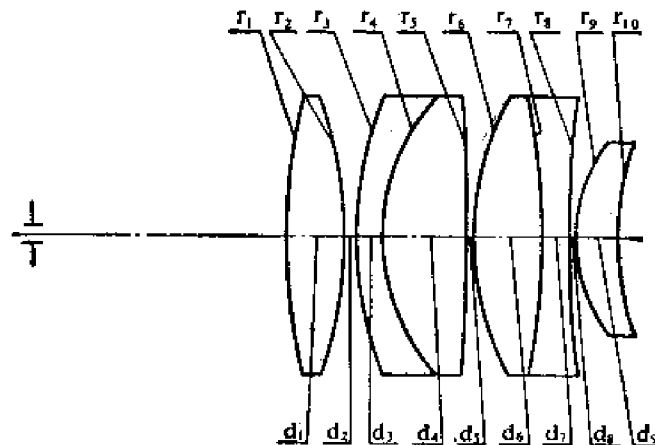


| 序 号 | r       | d     | n      | v    | 序 号 | r        | d     | n      | v    |
|-----|---------|-------|--------|------|-----|----------|-------|--------|------|
| 1   | 72.28   | 15.00 | 1.5163 | 64.1 | 6   | 58.88    | 22.00 | 1.5163 | 64.1 |
| 2   | 608.10  | 0.74  |        |      | 7   | -87.50   | 5.00  | 1.7172 | 29.5 |
| 3   | 79.25   | 17.00 | 1.5163 | 64.1 | 8   | 191.43   | 0.85  |        |      |
| 4   | -158.35 | 5.00  | 1.7172 | 29.5 | 9   | 35.81    | 20.00 | 1.5163 | 64.1 |
| 5   | 299.90  | 1.23  |        |      | 10  | $\infty$ |       |        |      |

编号: 08-01-M126

## 大孔径目镜

E.F.L=20.16 B.F.L=5.15  $\phi_{\text{出}}/2=3.5$  F.A.= $\pm 25'$   $L_p=-30.00$

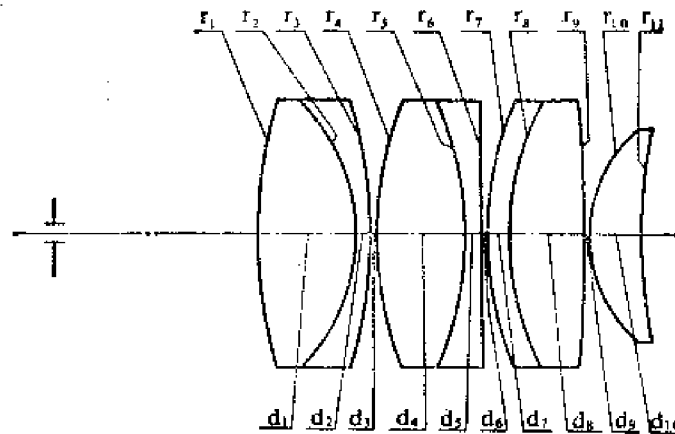


| 序 号 | r       | d    | n      | v    | 序 号 | r      | d    | n      | v    |
|-----|---------|------|--------|------|-----|--------|------|--------|------|
| 1   | 76.03   | 6.50 | 1.6126 | 58.3 | 6   | 35.40  | 8.00 | 1.6126 | 58.3 |
| 2   | -53.21  | 0.12 |        |      | 7   | -86.90 | 3.00 | 1.7398 | 28.2 |
| 3   | 45.50   | 3.00 | 1.7398 | 28.2 | 8   | 102.33 | 0.12 |        |      |
| 4   | 24.66   | 9.50 | 1.6126 | 58.3 | 9   | 18.71  | 5.00 | 1.6126 | 58.3 |
| 5   | -297.20 | 0.12 |        |      | 10  | 33.57  |      |        |      |

编号: 08-01-M127

## 大孔径目镜

E.F.L=17.52    B.F.L=6.44     $\phi_{出}/2=3.5$     F.A.= $\pm 23^\circ$      $L_p=-19.88$

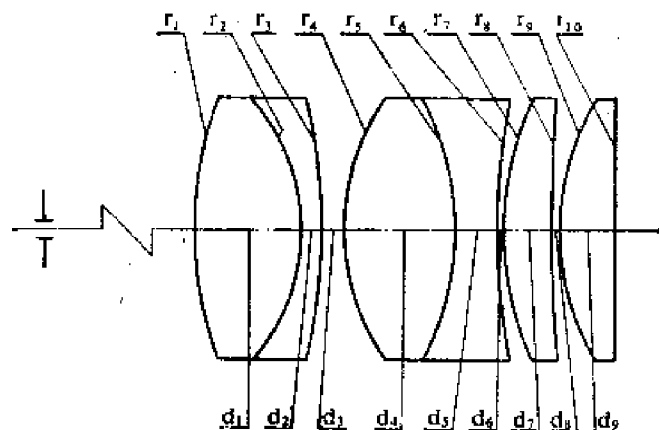


| 序 号 | r        | d    | n      | v    | 序 号 | r       | d    | n      | v    |
|-----|----------|------|--------|------|-----|---------|------|--------|------|
| 1   | 87.50    | 8.75 | 1.6126 | 58.3 | 7   | 33.81   | 2.05 | 1.7398 | 28.2 |
| 2   | -20.61   | 1.55 | 1.7398 | 28.2 | 8   | 27.98   | 7.20 | 1.6126 | 58.3 |
| 3   | -55.98   | 0.10 |        |      | 9   | -205.60 | 0.10 |        |      |
| 4   | 42.58    | 8.25 | 1.6126 | 58.3 | 10  | 16.90   | 5.35 | 1.6126 | 58.3 |
| 5   | -33.34   | 1.55 | 1.7398 | 28.2 | 11  | 60.67   |      |        |      |
| 6   | $\infty$ | 0.10 |        |      |     |         |      |        |      |

编号: 08-01-M128

## 大孔径目镜

E.F.L=16.99    B.F.L=4.35     $\phi_{出}/2=3.5$     F.A.= $\pm 20^\circ$      $L_p=-20.00$

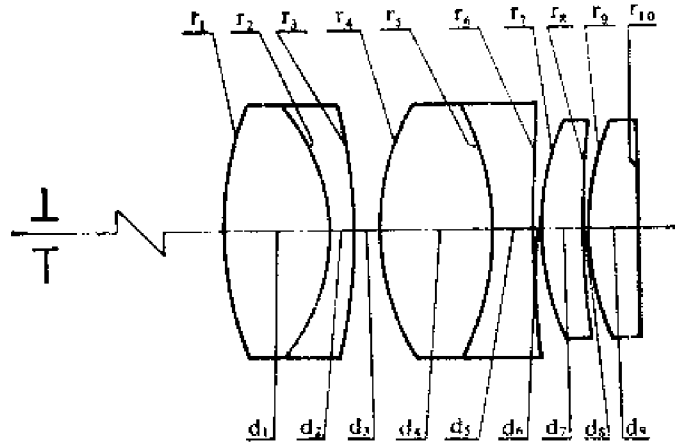


| 序 号 | r      | d   | n      | v    | 序 号 | r        | d   | n      | v    |
|-----|--------|-----|--------|------|-----|----------|-----|--------|------|
| 1   | 27.16  | 8.0 | 1.5163 | 64.1 | 6   | 230.00   | 0.1 |        |      |
| 2   | -14.56 | 1.4 | 1.6475 | 33.9 | 7   | 23.44    | 3.4 | 1.5163 | 64.1 |
| 3   | -48.87 | 2.0 |        |      | 8   | 108.39   | 0.1 |        |      |
| 4   | 19.86  | 8.2 | 1.5163 | 64.1 | 9   | 21.09    | 3.8 | 1.5163 | 64.1 |
| 5   | -20.96 | 3.1 | 1.6475 | 33.9 | 10  | $\infty$ |     |        |      |

编号: 08-01-M129

## 大孔径目镜

E.F.L=16.93    B.F.L=4.40     $\phi_{\text{出}}/2=3.5$     F.A.= $\pm 15^\circ$      $L_p=-23.90$

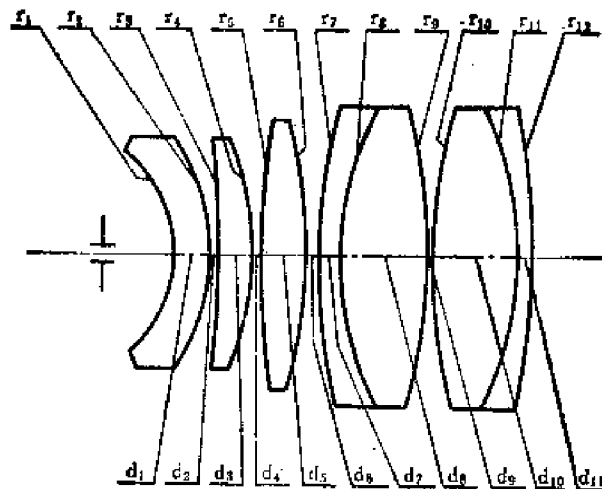


| 序 号 | r       | d   | n      | v    | 序 号 | r        | d   | n      | v    |
|-----|---------|-----|--------|------|-----|----------|-----|--------|------|
| 1   | 27.100  | 7.8 | 1.5147 | 60.6 | 6   | 234.400  | 0.2 |        |      |
| 2   | -14.521 | 1.7 | 1.6475 | 33.9 | 7   | 23.440   | 3.2 | 1.5147 | 60.6 |
| 3   | -48.750 | 2.0 |        |      | 8   | 109.900  | 0.2 |        |      |
| 4   | 19.409  | 8.1 | 1.5147 | 60.6 | 9   | 21.130   | 3.7 | 1.5147 | 60.6 |
| 5   | -20.890 | 3.0 | 1.6475 | 33.9 | 10  | $\infty$ |     |        |      |

编号: 08-01-M130

## 大孔径目镜

E.F.L=16.06    B.F.L=12.16     $\phi_{\text{出}}/2=3.5$     F.A.= $\pm 26^\circ$      $L_p=-4.10$

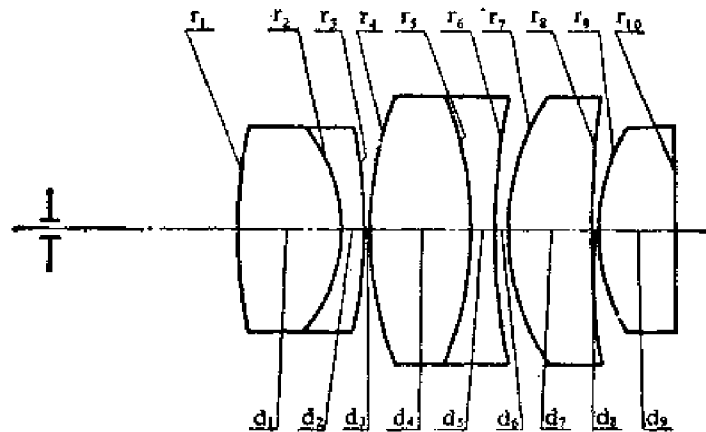


| 序 号 | r       | d   | n      | v    | 序 号 | r       | d   | n      | v    |
|-----|---------|-----|--------|------|-----|---------|-----|--------|------|
| 1   | -8.017  | 1.9 | 1.626  | 58.3 | 7   | 44.360  | 1.0 | 1.7172 | 29.5 |
| 2   | -11.942 | 0.1 |        |      | 8   | 16.943  | 5.0 | 1.5002 | 60.5 |
| 3   | -70.630 | 1.8 | 1.5002 | 60.5 | 9   | -45.710 | 0.1 |        |      |
| 4   | -20.840 | 0.1 |        |      | 10  | 43.050  | 4.8 | 1.5002 | 60.5 |
| 5   | 77.980  | 2.5 | 1.5302 | 60.5 | 11  | -20.320 | 1.0 | 1.7172 | 29.5 |
| 6   | -28.770 | 0.1 |        |      | 12  | -44.870 |     |        |      |

编号: 08-01-M131

## 大孔径目镜

E.F.L=11.80    B.F.L=3.87     $\phi_{出}/2=3.5$     F.A.= $\pm 20^\circ$      $L_p=-13.57$

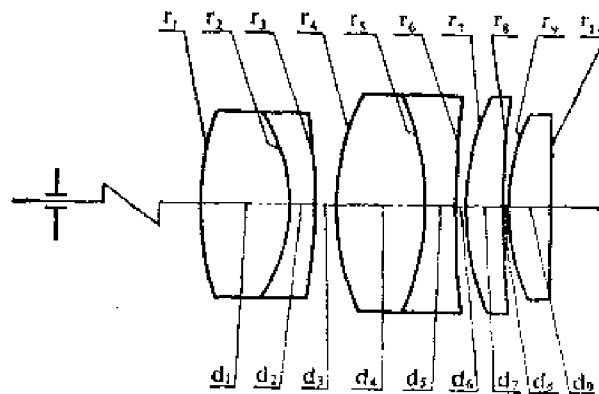


| 序 号 | r       | d   | n      | v    | 序 号 | r        | d   | n      | v    |
|-----|---------|-----|--------|------|-----|----------|-----|--------|------|
| 1   | 54.950  | 6.2 | 1.6220 | 56.7 | 6   | 54.950   | 0.1 |        |      |
| 2   | -9.594  | 1.3 | 1.7280 | 28.3 | 7   | 15.171   | 5.2 | 1.6385 | 55.5 |
| 3   | -35.160 | 0.1 |        |      | 8   | 48.080   | 0.1 |        |      |
| 4   | 26.670  | 5.9 | 1.6220 | 56.7 | 9   | 12.437   | 4.4 | 1.6385 | 55.5 |
| 5   | -20.890 | 1.3 | 1.6725 | 32.2 | 10  | $\infty$ |     |        |      |

编号: 08-01-M132

## 大孔径目镜

E.F.L=11.47    B.F.L=2.92     $\phi_{出}/2=3.5$     F.A.= $\pm 14^\circ$      $L_p=-17.00$

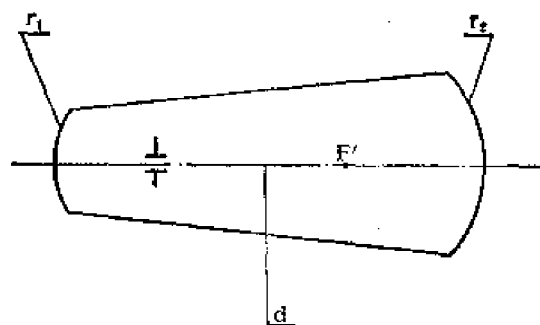


| 序 号 | r       | d    | n      | v    | 序 号 | r        | d    | n      | v    |
|-----|---------|------|--------|------|-----|----------|------|--------|------|
| 1   | 18.281  | 5.30 | 1.5147 | 60.6 | 6   | 158.120  | 0.14 |        |      |
| 2   | -9.817  | 1.40 | 1.6475 | 33.9 | 7   | 15.812   | 2.20 | 1.5147 | 60.6 |
| 3   | -32.890 | 1.35 |        |      | 8   | 74.130   | 0.14 |        |      |
| 4   | 13.092  | 5.50 | 1.5147 | 60.6 | 9   | 14.256   | 2.50 | 1.5147 | 60.6 |
| 5   | -14.093 | 2.00 | 1.6475 | 33.9 | 10  | $\infty$ |      |        |      |

编号: 08-01-M133

### 虚焦面的目镜

E.F.L=41.67    B.F.L=-21.40     $\phi_{\text{出}}/2=3$     F.A.= $\pm 16.5^\circ$      $L_p=14.06$

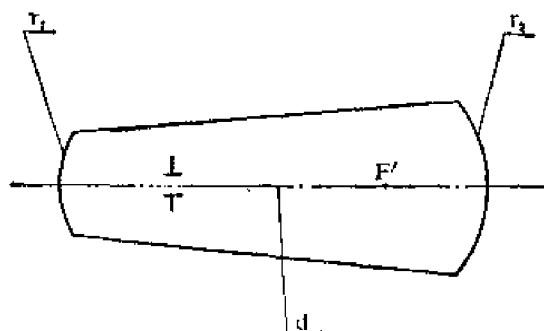


| 序 号 | r      | d    | n      | v    |
|-----|--------|------|--------|------|
| 1   | 14.06  | 62.5 | 1.5163 | 64.1 |
| 2   | -20.84 |      |        |      |

编号: 08-01-M134

### 虚焦面的目镜

E.F.L=41.67    B.F.L=-20.88     $\phi_{\text{出}}/2=3$     F.A.= $\pm 16.5^\circ$      $L_p=16.255$



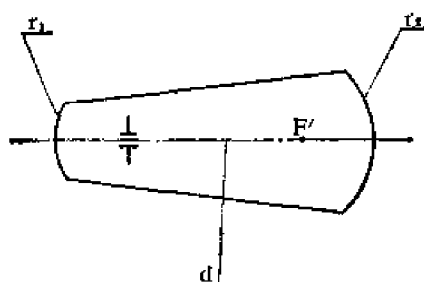
| 序 号 | r       | d    | n        | v    |
|-----|---------|------|----------|------|
| 1   | 16.255  | 62.5 | 1.640496 | 60.1 |
| 2   | -20.840 |      |          |      |



编号: 08-01-M135

## 虚焦面的目镜

E.F.L=20.88    B.F.L=-10.51     $\phi_{\text{出}}/2=2$     F.A.= $\pm 15.5^\circ$      $L_p=6.823$

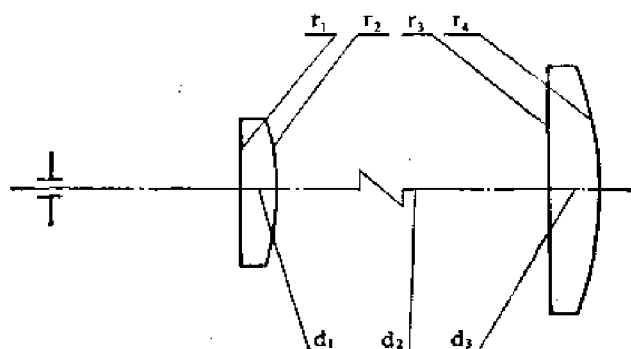


| 序 号 | r       | d    | n      | v  |
|-----|---------|------|--------|----|
| 1   | 6.823   | 31.3 | 1.4874 | 70 |
| 2   | -10.423 |      |        |    |

编号: 08-01-M136

## 虚焦面的目镜

E.F.L=49.93    B.F.L=-17.39     $\phi_{\text{出}}/2=2$     F.A.= $\pm 12^\circ$      $L_p=-14$

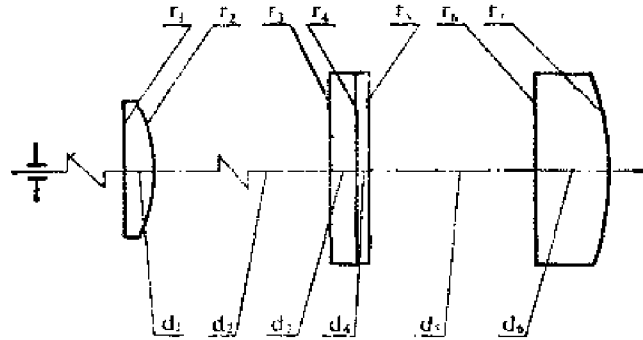


| 序 号 | r        | d     | n      | v    |
|-----|----------|-------|--------|------|
| 1   | $\infty$ | 2.50  | 1.5163 | 64.1 |
| 2   | -19.18   | 47.58 |        |      |
| 3   | $\infty$ | 3.80  | 1.5163 | 64.1 |
| 4   | -26.09   |       |        |      |

编号: 08-01-M137-1

### 虚焦面的目镜

E.F.L=42.31 B.F.L=-29.61  $\phi_{\text{出}}/2=1.6$  F.A.= $\pm 14^\circ$   $L_p=-11.50$

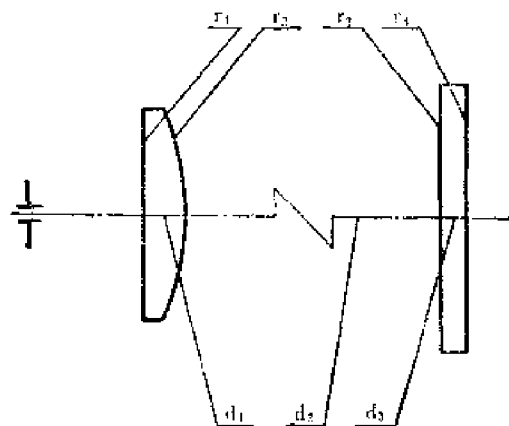


| 序 号 | r        | d     | n      | v    |
|-----|----------|-------|--------|------|
| 1   | $\infty$ | 2.00  | 1.5163 | 64.1 |
| 2   | -13.10   | 24.38 | 1.5163 | 64.1 |
| 3   | $\infty$ | 1.50  | 1.5163 | 64.1 |
| 4   | $\infty$ | 0.50  | 1.5163 | 64.1 |
| 5   | $\infty$ | 13.81 | 1.5163 | 64.1 |
| 6   | $\infty$ | 5.50  | 1.5163 | 64.1 |
| 7   | -22.91   |       |        |      |

编号: 08-01-M137-2

### 虚焦面的目镜

E.F.L=38.47 B.F.L=0  $\phi_{\text{出}}/2=1.6$  F.A.= $\pm 14^\circ$   $L_p=-11.50$

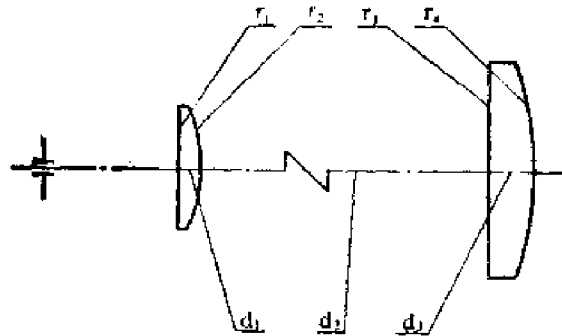


| 序 号 | r        | d     | n      | v    |
|-----|----------|-------|--------|------|
| 1   | $\infty$ | 2.00  | 1.5163 | 64.1 |
| 2   | -13.10   | 24.38 | 1.5163 | 64.1 |
| 3   | $\infty$ | 1.50  | 1.5163 | 64.1 |
| 4   | $\infty$ |       |        |      |

编号: 08-01-M138

### 虚焦面的目镜

E.F.L=35.61 B.F.L=-18.45  $\phi_{\text{出}}/2=1.4$  F.A.= $\pm 16^\circ$   $L_p=-10$

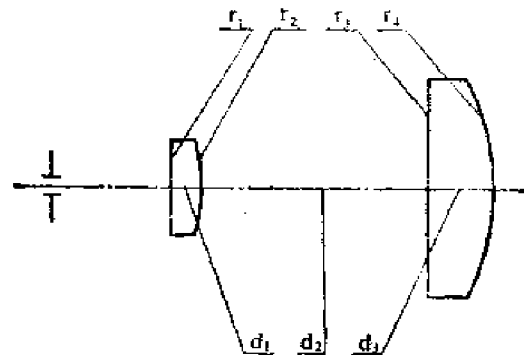


| 序 号 | r        | d    | n      | v    |
|-----|----------|------|--------|------|
| 1   | $\infty$ | 1.5  | 1.5163 | 64.1 |
| 2   | -13.08   | 36.2 |        |      |
| 3   | $\infty$ | 3.5  | 1.5480 | 45.9 |
| 4   | -24.92   |      |        |      |

编号: 08-01-M139

### 虚焦面的目镜

E.F.L=30.48 B.F.L=-13.84  $\phi_{\text{出}}/2=1.2$  F.A.= $\pm 18^\circ$   $L_p=-8.283$

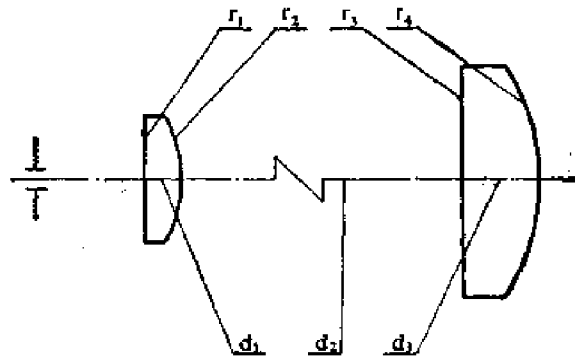


| 序 号 | r        | d    | n      | v    |
|-----|----------|------|--------|------|
| 1   | $\infty$ | 1.9  | 1.5399 | 59.7 |
| 2   | -11.83   | 28.7 |        |      |
| 3   | $\infty$ | 4.8  | 1.5163 | 64.1 |
| 4   | -18.28   |      |        |      |

编号: 08-01-M140

### 虚焦面的目镜

E.F.L=25.01 B.F.L=-11.30  $\phi_{\text{出}}/2=1$  F.A.= $\pm 18^\circ$   $L_p=-8$

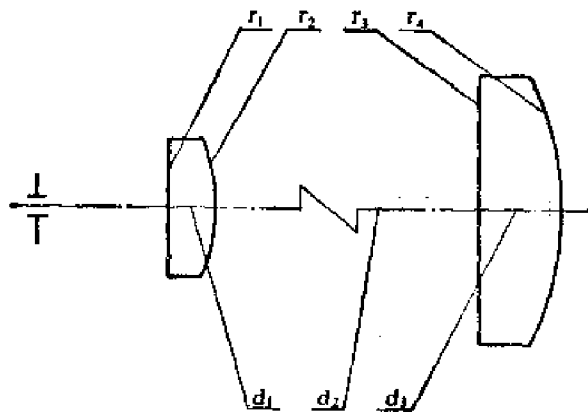


| 序 号 | r        | d    | n      | v    |
|-----|----------|------|--------|------|
| 1   | $\infty$ | 2.5  | 1.5163 | 64.1 |
| 2   | -9.48    | 22.9 |        |      |
| 3   | $\infty$ | 5.7  | 1.5163 | 64.1 |
| 4   | -18.12   |      |        |      |

编号: 08-01-M141

### 虚焦面的目镜

E.F.L=16.66 B.F.L=-7.40  $\phi_{\text{出}}/2=1$  F.A.= $\pm 18^\circ$   $L_p=-5$

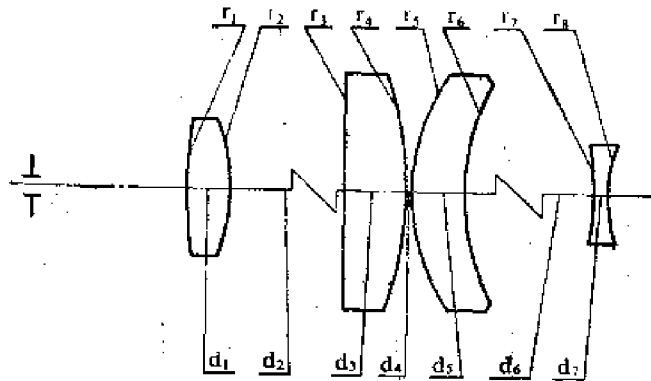


| 序 号 | r        | d     | n      | v    |
|-----|----------|-------|--------|------|
| 1   | $\infty$ | 1.60  | 1.5163 | 64.1 |
| 2   | -6.48    | 16.20 |        |      |
| 3   | $\infty$ | 2.92  | 1.5163 | 64.1 |
| 4   | -11.67   |       |        |      |

编号: 08-01-M142

### 虚焦面的目镜

E.F.L=10 B.F.L=-13.95  $\phi_{\text{出}}/2=0.41$  F.A.= $\pm 18.5^\circ$   $L_p=-12.78$

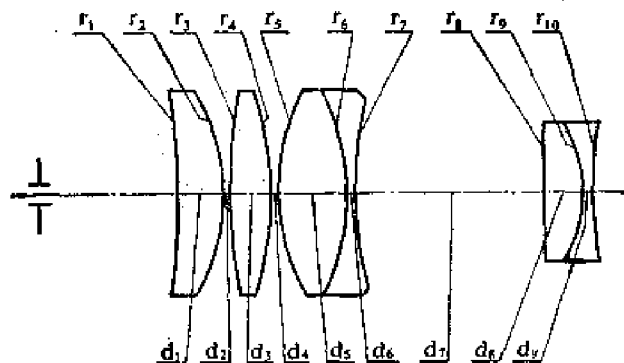


| 序 号 | r        | d     | n      | v    |
|-----|----------|-------|--------|------|
| 1   | 166.10   | 2.90  | 1.5688 | 56.0 |
| 2   | -14.20   | 38.49 |        |      |
| 3   | $\infty$ | 4.10  | 1.6475 | 33.9 |
| 4   | -31.70   | 0.36  |        |      |
| 5   | 15.60    | 4.00  | 1.6725 | 32.2 |
| 6   | 17.42    | 26.00 |        |      |
| 7   | -98.63   | 1.00  | 1.5163 | 64.1 |
| 8   | 10.35    |       |        |      |

编号: 08-01-M143

### 虚焦面的目镜

E.F.L=9.95 B.F.L=-8.65  $\phi_{\text{出}}/2=0.5$  F.A.= $\pm 30^\circ$   $L_p=-10.5$

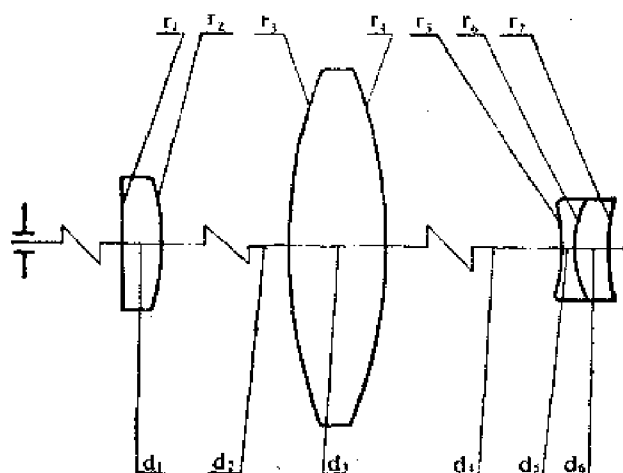


| 序 号 | r        | d     | n      | v    |
|-----|----------|-------|--------|------|
| 1   | -131.520 | 2.85  | 1.6204 | 60.3 |
| 2   | -14.757  | 0.07  |        |      |
| 3   | 68.880   | 2.95  | 1.6204 | 60.3 |
| 4   | -25.000  | 0.07  |        |      |
| 5   | 15.812   | 5.08  | 1.6204 | 60.3 |
| 6   | -15.812  | 0.73  | 1.7172 | 29.5 |
| 7   | 31.330   | 13.40 |        |      |
| 8   | $\infty$ | 2.83  | 1.7172 | 29.5 |
| 9   | -9.772   | 0.63  | 1.6204 | 60.3 |
| 10  | 30.480   |       |        |      |

编号: 08-01-M144

## 虚焦面的目镜

E.F.L.=9.83 B.F.L.= -17.61  $\phi_{\text{出}}/2=0.42$  F.A.=  $\pm 18.5^\circ$   $L_p = -12.2$

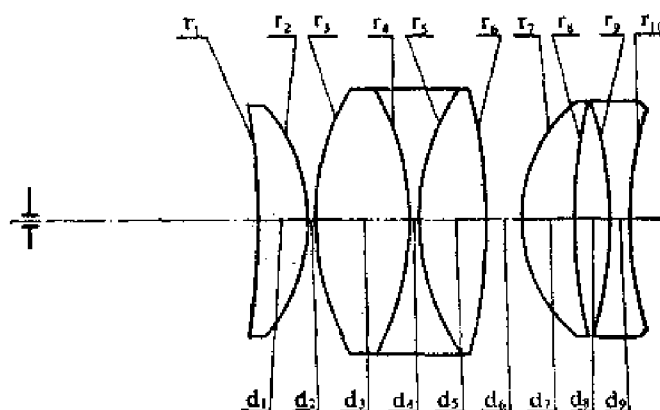


| 序 号 | r        | d  | n      | v    |
|-----|----------|----|--------|------|
| 1   | $\infty$ | 3  | 1.6199 | 36.3 |
| 2   | -17.11   | 44 |        |      |
| 3   | 37.50    | 7  | 1.5163 | 64.1 |
| 4   | -40.09   | 46 |        |      |
| 5   | -15.80   | 1  | 1.6220 | 56.7 |
| 6   | 7.00     | 3  | 1.6199 | 36.3 |
| 7   | 61.55    |    |        |      |

编号: 08-01-M145

## 虚焦面的目镜

E.F.L.=25.02 B.F.L.= -1.70  $\phi_{\text{出}}/2=2.5$  F.A.=  $\pm 36^\circ$   $L_p = -28$



| 序 号 | r       | d    | n      | v    | 序 号 | r       | d   | n      | v    |
|-----|---------|------|--------|------|-----|---------|-----|--------|------|
| 1   | -104.95 | 6.7  | 1.5688 | 56.0 | 6   | -109.65 | 5.4 |        |      |
| 2   | -26.06  | 0.1  |        |      | 7   | 23.01   | 7.8 | 1.5688 | 56.0 |
| 3   | 39.17   | 12.4 | 1.6126 | 58.3 | 8   | 69.66   | 5.1 |        |      |
| 4   | -41.50  | 1.6  | 1.7398 | 28.2 | 9   | -51.88  | 2.6 | 1.5688 | 56.0 |
| 5   | 34.44   | 10.0 | 1.6126 | 58.3 | 10  | 57.02   |     |        |      |

编号: 08-01-M146

## 内调视度的目镜

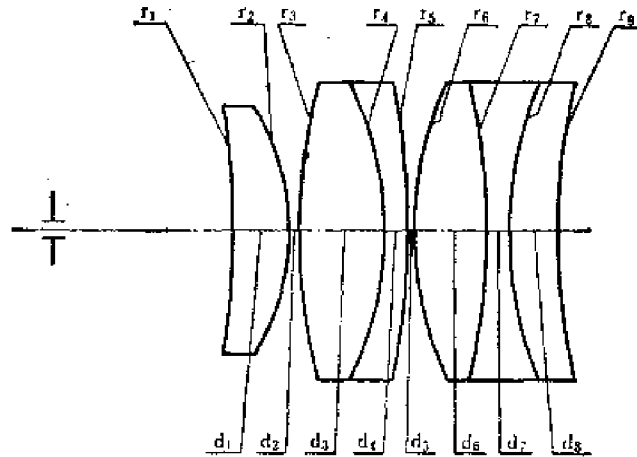
E.F.L=40.02

B.F.L=15.18

$\phi_{出}/2=8$

F.A.= $\pm 35^\circ$

$L_p=-30$



| 序 号 | r       | d                  | n      | v    | 序 号 | r       | d    | n      | v    |
|-----|---------|--------------------|--------|------|-----|---------|------|--------|------|
| 1   | -334.10 | 9.0                | 1.6968 | 56.2 | 6   | 65.98   | 13.8 | 1.6968 | 56.2 |
| 2   | -51.18  | 2.5 <sup>+++</sup> |        |      | 7   | -105.40 | 3.3  | 1.7200 | 27.3 |
| 3   | 117.60  | 14.8               | 1.6968 | 56.2 | 8   | 65.98   | 8.2  | 1.6968 | 56.2 |
| 4   | -58.74  | 4.0                | 1.7200 | 27.3 | 9   | 125.30  |      |        |      |
| 5   | -293.30 | 0.2                |        |      |     |         |      |        |      |

<sup>+++</sup> 0 视度  $d_2=2.5$  B.F.L=15.18; -3 视度  $d_2=9.0$  B.F.L=8.48; +1 视度  $d_2=0.4$  B.F.L=17.20

编号: 08-01-M147

## 内调视度的目镜

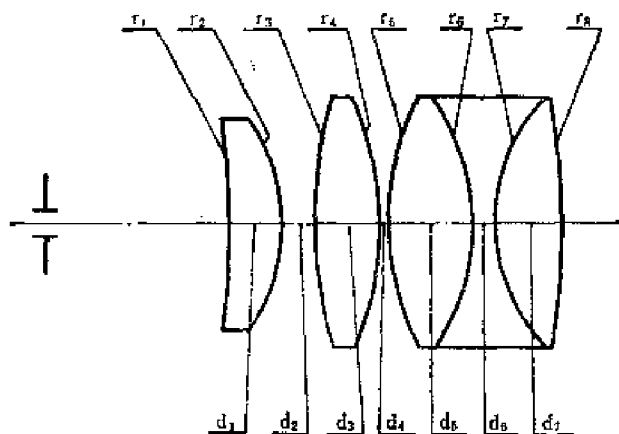
E.F.L=23.20

B.F.L=4.11

$\phi_{出}/2=2$

F.A.= $\pm 30^\circ$

$L_p=-18.5$



| 序 号 | r       | d                  | n      | v    | 序 号 | r       | d    | n      | v    |
|-----|---------|--------------------|--------|------|-----|---------|------|--------|------|
| 1   | -129.42 | 6.0                | 1.5467 | 60.5 | 5   | 33.11   | 10.0 | 1.5163 | 64.1 |
| 2   | -23.33  | 3.6 <sup>+++</sup> |        |      | 6   | -26.06  | 3.2  | 1.7398 | 28.2 |
| 3   | 64.27   | 7.0                | 1.5467 | 60.5 | 7   | 20.23   | 7.5  | 1.5163 | 64.1 |
| 4   | -41.30  | 0.2                |        |      | 8   | -304.80 |      |        |      |

<sup>+++</sup> 0 视度  $d_2=3.60$  B.F.L=4.11; -4 视度  $d_2=6.53$  B.F.L=1.19; +3 视度  $d_2=1.65$  B.F.L=6.05

编号: 08-01-M148

## 目 镜

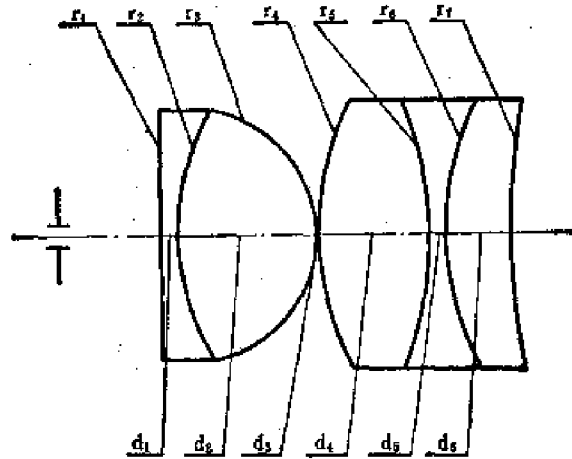
E.F.L=20.02

B.F.L=6.08

$\phi_m/2=1.5$

F.A.= $\pm 35^\circ$

$L_p=-12$



| 序 号 | r          | d    | n      | v    |
|-----|------------|------|--------|------|
| 1   | $\infty$   | 2.0  | 1.5480 | 45.8 |
| 2   | 32.060     | 16.0 | 1.5467 | 62.8 |
| 3   | -15.205*** | 0.2  |        |      |
| 4   | 41.120     | 13.0 | 1.6126 | 58.3 |
| 5   | -39.990    | 2.0  | 1.6128 | 36.9 |
| 6   | 35.000     | 7.0  | 1.6126 | 58.3 |
| 7   | 236.600    |      |        |      |

\*\*\*可按球面计算。也可按抛物面计算。 $y^2=2rx$   $r=-15.205$ 。

编号: 08-01-M149

## 目 镜

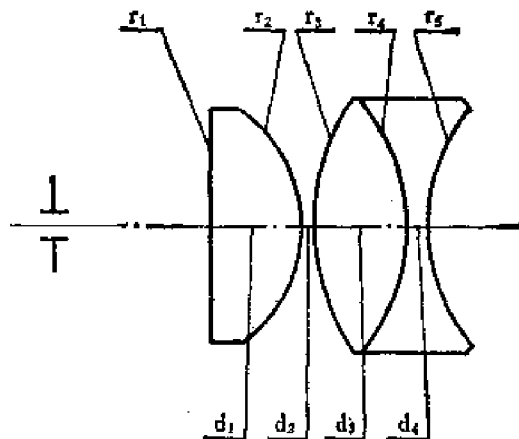
E.F.L=20.01

B.F.L=9.81

$\phi_m/2=1.4$

F.A.= $\pm 35^\circ$

$L_p=-15$



| 序 号 | r          | d    | n      | v    |
|-----|------------|------|--------|------|
| 1   | $\infty$   | 10.0 | 1.6920 | 54.5 |
| 2   | -15.417*** | 0.2  |        |      |
| 3   | 25.700     | 10.0 | 1.6568 | 51.1 |
| 4   | -21.380    | 2.0  | 1.7550 | 27.5 |
| 5   | 20.990     |      |        |      |

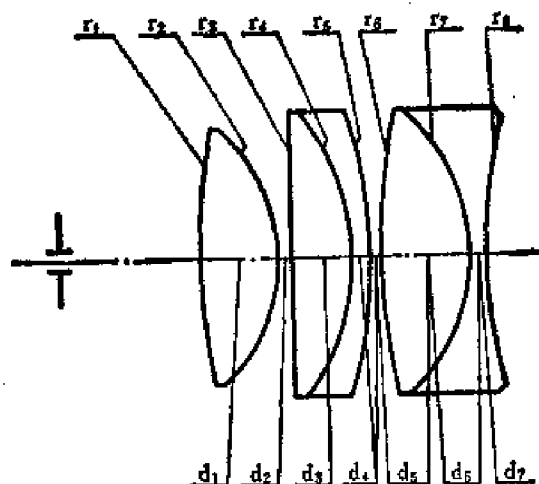
\*\*\*可按球面计算。也可按非球面计算。 $y^2=(-2) \times 15.417x - 0.22x^2$ 。



编号: 08-01-M150

## 目 镜

E.F.L=19.97    B.F.L=8.89     $\phi_{\text{目}}/2=1.5$     F.A.= $\pm 35^\circ$      $L_p=-10$



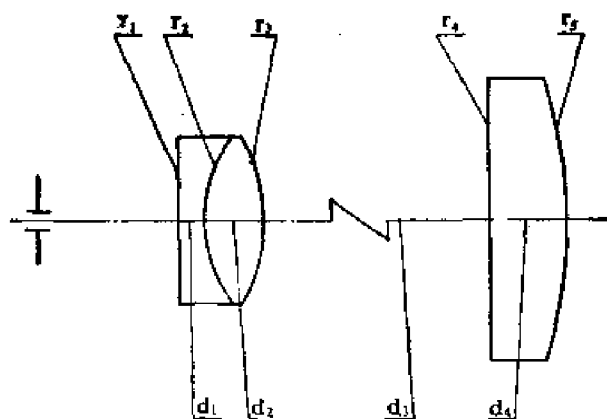
| 序 号 | r          | d    | n      | v    | 序 号 | r       | d    | n      | v    |
|-----|------------|------|--------|------|-----|---------|------|--------|------|
| 1   | 79.070     | 7.50 | 1.6968 | 56.2 | 5   | -56.490 | 0.10 |        |      |
| 2   | -18.836*** | 0.10 |        |      | 6   | 79.070  | 8.50 | 1.6968 | 56.2 |
| 3   | $\infty$   | 6.00 | 1.6968 | 56.2 | 7   | -19.770 | 1.15 | 1.7847 | 25.7 |
| 4   | -24.720    | 1.15 | 1.7847 | 25.7 | 8   | 49.890  |      |        |      |

\*\*\*可按球面计算。也可按抛物面计算。 $y^2=2rx$   $r=-18.836$ 。

编号: 08-01-M151

## 变焦距目镜

E.F.L=15.05~30.02    B.F.L=12.30~-16.84     $\phi_{\text{目}}/2=0.37\sim 0.75$   
F.A.= $\pm 30^\circ \sim \pm 15^\circ$



| 序 号 | r        | d    | n      | v    | 序 号 | r        | d   | n      | v    |
|-----|----------|------|--------|------|-----|----------|-----|--------|------|
| 1   | $\infty$ | 1.1  | 1.6164 | 36.3 | 4   | $\infty$ | 3.8 | 1.6164 | 36.3 |
| 2   | 7.015    | 3.2  | 1.5163 | 64.1 | 5   | -25.640  |     |        |      |
| 3   | -8.710   | ***1 |        |      |     |          |     |        |      |

|            |             |              |              |
|------------|-------------|--------------|--------------|
| ***1=2.20  | E.F.L=15.05 | B.F.L=12.30  | $L_p=-10.62$ |
| ***1=10.80 | E.F.L=17.62 | B.F.L=7.31   | $L_p=-7.02$  |
| ***1=19.44 | E.F.L=21.26 | B.F.L=0.22   | $L_p=-5.49$  |
| ***1=28.08 | E.F.L=26.79 | B.F.L=-10.55 | $L_p=-7.65$  |
| ***1=31.65 | E.F.L=30.02 | B.F.L=-16.84 | $L_p=-10.44$ |